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Top Hit Descriptor	Homo saplens chromosome X open reading frame 6 (CXORF6) mRNA	Homo sapiens chromosome X open reading frame 6 (CXORF6) mRNA	hi14b12.x1 NCI_CGAP_GU1 Homo sapiens cDNA clone IMAGE:2972255 3' similar to SW:DCRB_HUMAN P56555 DOWN SYNDROME CRITICAL REGION PROTEIN B.;	MR4-BT0657-060400-201-e10 BT0657 Homo sepiens cDNA	Human endogenous retrovirus HERV-P-T47D	nv03f05.s1 NCI_CGAP_Pr22 Homo sapiens cDNA clone IMAGE:1219137 3' similar to contains PTR5.b1 PTR5 repetitive element;	UI-H-BW1-ani-a-10-0-UI.s1 NCI_CGAP_Sub7 Homo sapiens cDNA clone IMAGE:3082267 3'	finfc? Regional genomic DNA specific cDNA library Homo sapiens cDNA clone CR17-26	ym55e10.11 Soares infant brain 1NIB Homo sapiens cDNA clone IMAGE:52182 5' similar to SP:M6B_MOUSE P35803 MEMBRANE GLYCOPROTEIN;	TCBAP1D3842 Pediatric pre-B cell acute lymphoblastic leukemia Baylor-HGSC project=TCBA Homo sapiens cDNA clone TCBAP3842	8g01.s1 NCI_CGAP_Phe1 Homo sapiens cDNA clone IMAGE:1101072 3'	no18g01.s1 NCI_CGAP_Phe1 Homo sapiens cDNA clone IMAGE:11010723'	Homo sapiens mRNA for KIAA1501 protein, partial cds	Homo sapiens mRNA for KIAA1501 protein, partial cds	Homo sapiens v-rel avian reticuloendothellosis viral oncogene homolog A (nuclear factor of kappa light polypeptide gene enhancer in B-cells 3 (p65)) (RELA), mRNA	AV743451 CB Homo sapiens cDNA clone CBCCGG10 5'	zx80c03.r1 Scares ovary tumor NbHOT Homo sapiens cDNA clone IMAGE:810052 5'	601305064F1 NIH_MGC_39 Homo sapiens cDNA clone IMAGE:3839782 5'	ym55e10.r1 Soares infant brain 1NIB Homo sapiens cDNA clone IMAGE:52182 5' similar to SP:M6B_MOUSE P35803 MEMBRANE GLYCOPROTEIN;	Homo sapiens cisplatin resistance-associated overexpressed protein (LOC51747), mRNA	Homo sapiens amyloid beta (A4) precursor protain (protease nexin-II, Alzheimer disease) (APP), mRNA	Homo sapiens RNA binding motif protein 6 (RBM6) mRNA	Homo saplens chromosome 21 segment HS21C102	Homo sapiens chromosome 21 segment HS21C046	Human endogenous retroviral DNA (4-1), complete retroviral segment	td17c01.x1 NCI_CGAP_Co16 Home saplens cDNA clone IMAGE:2075904 3' similar to TR:O14588 O14588 SIMILARITY TO U73941;
Top Hit Dafabase Source			EST_HUMAN P5	EST_HUMAN MF	Г		Г	EST_HUMAN fm	EST_HUMAN SF	TC EST HUMAN sa	Γ					T_HUMAN	Π	Г	EST_HUMAN SF				NT Ho	NT He	NT	EST_HUMAN SII
Top Hit Acession No.	4885170 NT	4885170 NT	AW664531.1	BE084571.1 E	AF087913.1	AA659930.1 E	BF514170.1 E	AA631940.1	H24278.1 E	BE246065.1 E				AB040934.1	11496238 NT	AV743451.1	AA465007.1	BE737154.1 E	H24278.1	7706534 NT	4502166 NT	5032032 NT	AL163302.2	AL163246.2	M10976.1	AI889077.1 E
Most Similar (Top) Hit BLAST E Value	3.0E-48	3.0E-48	3.0E-48	3.0E-48		3.0E-48	3.0E-48	2.0E-48	2.0E-48 h	· 2.0E-48		2.0E-48	2.0E-48 /	2.0E-48	2.0E-48	2.0E-48	2.0E-48	2.0E-48	2.0E-48	1.0E-48	1.0E-48	1.0E-48	1.0E-48	1.0E-48	1.0E-48	1.0E-48
Expression Signal	15.26	15.26	0.75	2.47	0.94	3.41	9.52	1.71	5.15	1.42	0.61	0.61	4.77	4.77	3.35	1.33	4.27	1.86	1.34	2.3	17.13	3.77	30.36	0.96	1.6	1.17
ORF SEQ ID NO:	27422	27423	29017	31519			36708	25495		29861				33183	33197	34084	30486	30820		25511	26293	26691		28894	86606	31946
Exon SEQ ID NO:	14705	14705	16375	18594	L	20984		L	<u> </u>	17231	1_	l_	Ì _	L	20109		17888	25232	13949	12883	13623	14023	14648	16238	17780	18971
Probe SEQ ID NO:	1969	1969	3622	5804	6919	8290	10784	44	1197	4495	5724	5724	7419	7419	7432	8253	12041	12367	12716	2	853	1273	1911	3481	5061	6195

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- 1		100	Т	Т	Г	Т	Т	Г	Г	ı.	П	П	П	Г	П		Γ-			Г		П					Т				П
Single Exon Probes Expressed in Brain	Top Hit Descriptor	http://www.nci.cgap_co16 Homo saplens cDNA clone IMAGE:2075904 3' similar to TR:014588 014588 SIMILARITY TO U73941;	Homo sapiens NF2 gene	Homo sapiens mRNA for KIAA1071 protein, partial cds	Homo seplens mRNA for KIAA1071 protein, partial cds	Homo sapiens huntingtin (Huntington disease) (HD) mRNA	Homo sapiens mitogen-activated protein kinase kinase kinase 13 (MAP3K13), mRNA	Homo sapiens mitogen-activated protein kinase kinase kinase 13 (MAP3K13), mRNA	Homo sapiens Chediak-Higashi syndrome 1 (CHS1) mRNA	Homo sapiens mRNA for KIAA1245 protein, partial cds	601888096F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:4122119 5'	Homo sapiens B cell linker protein (SLP65), mRNA	Homo sapiens B cell linker protein (SLP65), mRNA	Mus musculus MysPDZ mRNA for myosin containing PDZ domain, complete cds	Mus musculus T-box 20 (Tbx20), mRNA	Mus musculus T-box 20 (Tbx20), mRNA	Human inositol 1,4,5 trisphosphate receptor type 1 mRNA, partial cds	Homo saplens gene for activin receptor type IIB, complete cds	Homo saplens proteasome (prosome, macropain) 26S subunit, ATPase, 4 (PSMC4) mRNA	Homo saplens proteasome (prosome, macropain) 26S subunit, ATPase, 4 (PSMC4) mRNA	Homo sapiens proteasome (prosome, macropain) 26S subunit, ATPase, 4 (PSMC4) mRNA	Homo sapiens proteasome (prosome, macropain) 26S subunit, ATPase, 4 (PSMC4) mRNA	Homo sapiens proteasome (prosome, macropain) 26S subunit, ATPase, 4 (PSMC4) mRNA	Homo sapiens proteasome (prosome, macropain) 26S subunit, ATPase, 4 (PSMC4) mRNA	Homo sapiens chromosome 21 segment HS21C084	WZ5h04.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2356863 3' similar to TR:O54923 O54923 RSEC15.;	DKFZp762C033_s1 762 (synonym: hmel2) Homo sapiens cDNA clone DKFZp762C033 3'	wf25h04.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2356663 3' similar to TR:054923	054923 RSEC15;	bas5g06.x1 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:2900504 3' similar to gb:X17206 40S RIBOSOMAL PROTEIN S4 (HUMAN); gb:M20632 Mouse LLRep3 protein mRNA from a repetitive element, complete (MOUSE);	DKFZp761A138_s1 761 (synonym: hamy2) Homo sapiens cDNA clone DKFZp761A138 3'
Jie Exon Pro	Top Hit Database Source	EST_HUMAN	LN	NT	ΤN	NT	NT	NT	NT	IN	EST_HUMAN	NT	NT	IN	NT	NT	TN	NT	NT	NT	NT	NT	LN	ΤN	NT	EST HUMAN	EST_HUMAN		EST_HUMAN	EST HUMAN	EST_HUMAN
Sillo	Top Hit Acession No.	AI889077.1			AB028994.1	4755137 NT	4758695 NT		4502838 NT		1.0E-49 BF304683.1	11429808 NT	11429808 NT	9 AB026497.1		10048417 NT			5729990 NT	7.0E-49 5729990 NT	5729990 NT	5729990 NT	5729990 NT	5728990 NT	7.0E-49 AL163284.2	9 Ai807191.1	9 AL120937.1		9 A)807191.1	6.0E-49 AW731740.1	
	Most Similar (Top) Hit BLAST E Value	1.0E-48	1.0E-48	1.0E-48	1.0E-48	1.0E-48	1.0E-48	1.0E-48	1.0E-48	1.0E-48	1.0E-48	1.0E-48	1.0E-48	8.0E-49	8.0E-49	8.0E-49	8.0E-49	8.0E-49	7.0E-49	7.0E-49	7.0E-49	7.0E-49	7.0E-49	7.0E-49	7.0E-49	7.0E-49	7.0E-49		7.0E-49	6.0E-49	6.0E-49
	Expression Signal	1.17	0.94	0.71	0.71	2.52	0.76	0.76	0.84	6.4	5.33	4.08	4.08	1.13	3.43	3.43	3.17	1.15	1	1	1.73	1.73	2.94	2.94	3.4	2.11	1.46		0.67	12.12	1.27
	ORF SEQ ID NO:	31947				32913							36128	27461				35733		25815	25814		25814	25815	26615	30862			30862	25646	Ц
	Exon SEQ ID NO:	18971	19176	19265	19265	19844	21422	21422	21801	21838	22134	22917	22917	14737	18744	18744	20888	22539	13171	13171	13171	13171	13171	13171	13951	18173	18183		18173	13005	16837
	Probe SEQ ID NO:	6195	6407	9200	9200	7157	8730	8730	9113	9168	9481	10269	10269	2002	2962	2965	8194	6886	135	135	384	384	385	385	1199	5373	5383		5716	192	4095

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Top Hit Descriptor	AU140742 PLACE4 Homo sapiens cDNA clone PLACE4000148 5'	hd44e02.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2912378 3' similar to TR:095636 O95636 CAMP-REGULATED GUANINE NUCLEOTIDE EXCHANGE FACTOR II.;	Mus musculus keratin complex 2, gene 6g (Krt2-6g), mRNA	Mus musculus keratin complex 2, gene 6g (Krt2-6g), mRNA	UI-H-BI3-alo-a-05-0-UI.s1 NCI_CGAP_Sub5 Homo sapiens cDNA clone IMAGE:3068048 3'	EST77525 Pancreas tumor III Homo sapiens cDNA 5' end	EST77525 Pancreas tumor III Homo sapiens cDNA 5' end	2/29c08.s1 Soares_fetal_liver_spleen_1NFLS_S1 Homo saplens cDNA clone IMAGE:451694.3	Homo sapiens chromosome 21 segment HS21C010	Homo sapiens chromosome 21 segment HS21C010	zp29c07.r1 Stratagene neuroepithelium (#837231) Homo sapiens cDNA clone IMAGE:610860 5' similar to TR:6233226 G233226 RTVL-H PROTEIN ;contains LTR7.t3 LTR7.t7 repetitive element;	Homo sapiens putative tumor suppressor ST13 (ST13) mRNA, complete cds	Homo saplens similar to ribosomal protein S27 (metallopanstimulin 1) (H. sapiens) (LOC63362), mRNA	xi08b01.x1 NCI_CGAP_Ut4 Homo sapiens cDNA clone IMAGE:2875593 3' similar to W P:B0350.2B CE06703 :	Homo saplens UDP-N-ecety-alpha-D-galactosamine:polypeptide N-acetylgalactosaminylransferase 8 (GalNAc-T8) (GALNT8), mRNA	Homo sapiens UDP-N-acety-alpha-D-galactosamine:polypeptide N-acetylgalactosaminyltransferase 8 (GaINAc-T8) (GALNT8), mRNA	Homo sapiens KIAAC623 gene product (KIAA0623), mRNA	Homo saplens copine iii (CPNE3), mRNA	Homo sapiens copine III (CPNE3), mRNA	z 80105.r1 NCI_CGAP_GCB1 Homo sapiens cDNA clone IMAGE:682977 5'	Homo sapiens glutathione S-transferase theta 2 (GSTT2) and glutathione S-transferase theta 1 (GSTT1)	genes, complete cas	H saplens mKNA for acetyl-CoA carboxylase	ze31c05.r1 Soares retina N2b4HR Homo saptens cDNA clone IMACE:360584 5 similar to contains L1.t3 L1 repetitive element;	Human type IV collagen (COL4A6) gene, exon 40	EST25e12 WATM1 Homo sapiens cDNA clone 25e12
Top Hit Database Source	EST_HUMAN /	EST_HUMAN 0						EST_HUMAN		LN	EST_HUMAN	П	,	EST_HUMAN						EST_HUMAN		LN	LN.	EST HUMAN	TN	EST_HUMAN
Top Hit Acessian No.	U140742.1	W511225.1	9910293 NT	9910293 NT	W452218.1	AA366556.1	AA366556.1	4A707567.1	AL163210.2	AL163210.2	5.0E-49 AA172121.1		11436355 NT	AW189533.1	11525737 NT	11525737 NT	7662209 NT	11425374 NT	11425374 NT	AA210798.1		AF240786.1	X68968.1	AA016131.1	U46999.1	H39479.1
Most Similar (Top) Hit BLAST E Value	6.0E-49 A	6.0E-49	6.0E-49	6.0E-49	6.0E-49	6.0E-49	6.0E-49	6.0E-49	5.0E-49	5.0E-49	5.0E-49	5.0E-49	5.0E-49	4.0E-49	4.0E-49	4.0E-49	4.0E-49	4.0E-49	4,0E-49	4.0E-49		4.0E-49	3.0E-49	3.0E-49	3.0E-49	3.0E-49
Expression Signal	0.94	0.69	0.45	0.45	2.5	2.6	2.6	2.03	7	2	3.49	4.25	2.64	47.84	0.95	0.95	6.0	0.47	0.47	4.21		4.1	1.73	19		
ORF SEQ ID NO:	32109	33076	35478	35479	37202	37579	37580		26117	26118	27235	28201	28678					L	L	L			25961		30264	
Exon SEQ ID NO:	19119	19997	22285	22285	23910	24257	24257	25151	13470	13470	14527	l _	16029	L	1	l	1		1	1	ı	1	13330	15364	1	1 1
Probe SEQ ID NO:	6349	7314	9633	9633	11248	11661	11661	12362	992	969	1786	2754	3267	512	7172	7172	7710	8763	8763	12221		12306	547	2654	4923	7319

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					Sinc	פוני שונים	Single Exon Probes Expressed in Brain
Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLASTE Value	Top Hit Acesslon No.	Top Hit Database Source	Top Hit Descriptor
11272	23933	37226	1,98	3.0E-49	AA337561.1	EST_HUMAN	EST42572 Endometrial fumor Homo saplens cDNA 5' end
946	13425			2.0E-49	BE165980.1	EST_HUMAN	MR3-HT0487-150200-113-g01 HT0487 Home sepiens cDNA
3216	15979	28630		2.0E-49	N26446.1	EST_HUMAN	yx23d06,r1 Soares melanocyte 2NbHM Homo sapiens cDNA clone IMAGE:282571 5'
							oz88d02.x1 Soares_senescent_fibroblests_NbHSF Homo sapiens cDNA clone IMAGE:1682403 3' similar to gb:M31470 RAS-LIKE PROTEIN TC10 (HUMAN);contains Alu repetitive element;contains element MER22
4746	17478	30110	0.68	2.0E-49		EST_HUMAN	repetitive element;
4758	17490	30118	0.74	2.0E-49		EST HUMAN	UI-H-BI4-aps-d-02-0-UI.s1 NCI_CGAP_Sub8 Homo sapiens cDNA clone IMAGE:3088538 3
6637	19399	32414		2.0E-49	AV717938.1	EST_HUMAN	AV717938 DCB Hamo saplens cDNA clone DCBALB01 5'
7998	20693		1.74	2.0E-49	M86033.1	EST HUMAN	EST02558 Fetal brain, Stratagene (cat#836206) Homo sapiens cDNA clone HFBCY50
12316	25250		2.07	2.0E-49	AF163864.1	LN L	Homo sapiens SNCA isoform (SNCA) gene, complete cds, alternatively spliced
879	13648		S	1.0E-49	BF03532	EST_HUMAN	601458531F1 NIH_MGC_66 Homo sapiens cDNA clone IMAGE:3862086 5
1546	14292	26978	1.11	1.0E-49		NT	Homo sapiens keratin 18 (KRT18) mRNA
1794	14534			1.0E-49		EST HUMAN	601115769F1 NIH_MGC_16 Homo sepiens cDNA clone IMAGE:3356273 5
5275	1	Ì	6.82	1.0E-49		EST_HUMAN	601820053F1 NIH_MGC_58 Homo sapiens cDNA clone IMAGE:4052052 5'
598 <i>6</i>	1	31731		1.0E-49	H18291.1	EST HUMAN	yn48h04.r1 Soares adult brain N2b5HB55Y Homo sapiens cDNA clone IMAGE:171703 5' similar to SP:GBG1_HUMAN Q08447 GUANINE NUCLEOTIDE-BINDING PROTEIN G(T) GAMMA-1 SUBUNIT;
5992	L			1.0E-49	AW964640.1	EST HUMAN	EST376713 MAGE resequences, MAGH Homo sapiens cDNA
7117	19805			1.0E-49		EST_HUMAN	AV703000 ADB Homo sapiens cDNA clone ADBCVD11 5'
7117	19805	32870	0.62	1.0E-49	AV703000.1	EST HUMAN	AV703000 ADB Homo sapiens cDNA clone ADBCVD11 5'
7123	L_	Ì		1.0E-49	BE398110.1	EST_HUMAN	601290330F1 NIH_MGC_8 Homo sapiens cDNA clone IMAGE:3620863 5'
7123	19811	32879		1.0E-49	BE398110.1	EST_HUMAN	601290330F1 NIH_MGC_8 Hamo saplens cDNA clone IMAGE:3620863 5
7200	19886	32960	221	1.0E-49	N25884.1	EST_HUMAN	yw78g12.s1 Soares_placenta_8to8weeks_2NbHP8to8W Homo sapiens cDNA clone IMAGE:258406 3' similar to gb:X65873 KINESIN HEAVY CHAIN (HUMAN);
7200				L.	N25884.1	EST HUMAN	yw78g12.s1 Soares_placenta_stoSweeks_2NbHP8to9W Homo sapiens cDNA clone IMAGE:258406 3' similar to gb:X65873 KINESIN HEAVY CHAIN (HUMAN);
7797	L					IN	Homo saplens succinate-CoA ligase, GDP-forming, alpha subunit (SUCLG1), mRNA
7977	L					NT	Homo saplens succinate-CoA ligase, GDP-forming, alpha subunit (SUCLG1), mRNA
8575					9994184 NT	NT	Homo sapiens RNA binding motif protein 7 (LOC51120), mRNA
8894	ĺ	34721	1.29		BE409340.1	EST HUMAN	601300992F1 NIH_MGC_21 Homo sepiens cDNA clone IMAGE:3636398 5
10026						EST_HUMAN	DKFZp434D2423_r1 434 (synonym: htes3) Homo sapiens cDNA clone DKFZp434D2423 5
10979	23654				AV7514	EST_HUMAN	AV751477 NPD Hamo sapiens cDNA clone NPDAW E04 3
11281	Ц	37236				LNT	Homo saplens brefeldin A-inhibited guarine nucleotide-exchange protein 1 (BIG1), mixiva
12215			2.46	1		ŁN!	Homo saprens cadnerin EGF LAG seven-pass G-type receptor I (CELSAT), military
4937	17665		1.4	9.0E-50	AF101475.1	L	Homo sapiens giyone nameniyinan isrerase (Carvin), gene, comprese da

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Single Exon Probes Expressed in Brain	Top Hit Descriptor	601176250F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3531588 5'	Homo saplens chromosome 21 segment HS21C002	Homo sapiens mRNA for VIP receptor 2	Homo sapiens mRNA for VIP receptor 2	Homo sapiens actinin, alpha 1 (ACTN1) mRNA	Homo sapiens capping protein (actin filament) muscle Z-line, beta (CAPZB), mRNA	Homo sapiens hepatocyte growth factor(HGF) gene, exon 18	np62d06.s1 NCI_CGAP_Br2 Homo sapiens cDNA clone IMAGE:1130891 3' similar to gb:J05459 GLUTATHIONE S-TRANSFERASE TESTIS/BRAIN (HUMAN);	QV0-BT0703-280400-211-e08 BT0703 Homo sapiens cDNA	RC6-TN0073-150800-011-A12 TN0073 Homo saplens cDNA	RC6-TN0073-150900-011-A12 TN0073 Homo sapiens cDNA	nq59e12.s1 NCL_CGAP_Co9 Homo seplens cDNA clone IMAGE:1148206 3' similar to gb:X69391 60S RIBOSOMAL PROTEIN L6 (HUMAN);	wm55g11.x1 NCI_CGAP_Ut2 Hamo sapiens cDNA clone IMAGE:2439908 3'	601589565F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3943577 5'	ho36h04.x1 NCL_CGAP_Ut1 Homo sapiens cDNA clone IMAGE:3039511 3' simitar to contains MER29.b3 MER29 repetitive element ;	EST182775 Jurkat T-cells VI Homo saplens cDNA 5' end	EST182775 Jurkat T-cells VI Homo sapiens cDNA 5' end	CM0-BT0792-300500-398-b05 BT0792 Homo saplens cDNA	CM0-BT0792-300500-398-b05 BT0792 Homo saplens cDNA	n/45h10.s1 NCI_CGAP_Pr4 Homo sapiens cDNA clone IMAGE:1043683 similar to contains PTR5.t3 PTR5	repetitive element;	no54e09.s1 NCI_CGAP_SS1 Homo sapiens cDNA clone IMAGE:1104520 3' similar to gb:X53741_ma1	FIBULIN-1, ISOFORM A PRECURSOR (HUMAN);	Homo sapiens chromosome 21 segment HS21C048	Homo sapiens cysteinyl-tRNA synthetase (CARS), mRNA	QV1-BT0681-280300-127-f12 BT0681 Homo sapiens cDNA	Human endogenous retrovirus RTVL-H2	ob03f06.s1 NCI_CGAP_Kid3 Homo sapiens cDNA clone IMAGE:1322627 3'	CMYA5 Human cardiac muscle expression library Homo sapiens cDNA clone 4151935 similar to CMYA5 Cardiomyopathy associated gene 5
e Exon Propes E	Top Hit Database Source	EST_HUMAN 6011	шон IN	NT Hom					EST_HUMAN GLU	EST_HUMAN QV0	EST_HUMAN RC6	EST_HUMAN RCS		1	EST_HUMAN 6015		Γ	Γ	EST_HUMAN CMO	EST_HUMAN CMO		EST HUMAN repe		T HUMAN			T_HUMAN		EST_HUMAN 0b03	CMY EST_HUMAN Card
Buis	Top Hit Acesslan No.	BE295758.1	AL163202.2 N	X95097.2	X95097.2 N	4501890 NT	4826658	D90334.1	AA633467.1 E	BE089591.1 E	BF091922.1	BF091922.1	AA627822.1 E	AI872137.1	BE794381.1	BE044076.1				BF332938.1 E		AA557683.1		1	AL163248.2	11440683 NT	BE087536.1	M18048.1	AA746142.1	AW755254.1
	Most Similar (Top) Hit BLAST E Value	9.0E-50	8.0E-50	8.0E-50	8.0E-50	8.0E-50	8.0E-50	8.0E-50	8.0E-50	7.0E-50	7.0E-50	7.0E-50	7.0E-50	7.0E-50	6.0E-50	6.0E-50	6.0E-50	6.0E-50	5.0E-50	5.0E-50		5.0E-50		4.0E-50	4.0E-50	4.0E-50	4.0E-50	3.0E-50	3.0E-50	3.0E-50
	Expression Signal	0.95	4.05	2.54	2.54	2.82	1.48	15.7	1.29	0.76	1.06	1.06	9.0	7.65	0.68	5.67	12.6	12.6	1:1	1:1		5.26		1.71	66'0	96.0	1.95	4.13	1.24	1.14
	ORF SEQ ID NO:		25619	26125	. 26126	27201	28147		37293	26015	32643	32644	32866	36584			36646	l	27233						28847	32018	32888		28703	29124
	Exan SEQ ID NO:	25421	l	13477	13477	14500	15410	14691	23992	13383	19604	19604	19890		l	l	ŀ	23406	ı	14526	ł	21680	L		16197	19041	19822	14667	16054	16487
	Probe SEQ ID NO:	6310	166	702	702	1758	2703	2833	11385	902	6687	6687	7205	10656	4309	8112	10717	10717	1785	1785		8990		897	3441	6268	7135	1931	3293	3734

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Table 4
Single Exon Probes Expressed in Brain

	Top Hit Descriptor	Homo sapiens similar to sema domain, Immunoglobulin domain (1g), short basic domain, secreted, (semaphorin) 3A (H. sapiens) (LOC63232), mRNA	Homo sapiens FYVE domain-containing dual specificity protein phosphalase FYVE-DSP1a mRNA, complete	SDO	Homo sapiens FYVE domain-containing dual specificity protein phosphatase FYVE-DSP1a mKNA, complete ods	Homo sapiens ankyrin-like with transmembrane domains 1 (ANKTM1), mRNA	Homo sapiens mRNA for KIAA1598 protein, partial cds	Homo sapiens t-complex 10 (a murine tcp homolog) (TCP10), mRNA	Mus musculus mRNA for neurobeachin	Human mRNA for KJAA0299 gene, partial cds	Homo sapiens Grb2-associated binder 2 (KIAA0571), mRNA	Homo sapiens CTL2 gene	Homo sapiens MHC class 1 region	Homo sapiens midline 1 (Optiz/BBB syndrome) (MID1) mRNA	Homo sapiens decorin D mRNA, complete cds, alternatively spliced	AU124065 NT2RM2 Homo sapiens cDNA clone NT2RM2001609 5'	Homo sapiens TFF gene cluster for trefoil factor, complete cds	Homo sapiens TFF gene cluster for trefoil factor, complete cds	Human HALPHA44 gene for alpha-tubulin, exons 1-3	Human HALPHA44 gene for alpha-tubulin, exons 1-3	Mus musculus keratin complex 2, gene 6g (Krt2-6g), mRNA	Mus musculus keratin complex 2, gene 6g (Krt2-6g), mRNA	Macaca mulatta cyclophilin A mRNA, complete cds	Homo sapiens chromosome 21 segment HS21C009	Homo sapiens Xq pseudoautosomal region; segment 1/2	Homo sapiens RGH2 gene, retrovirus-like element	hd44e02.x1 Sogres_NFL_T_GBC_S1 Hamo sapiens cDNA clone IMAGE:2912378 3' similar to TR:095636 095636 CAMP-REGULATED GUANINE NUCLEOTIDE EXCHANGE FACTOR II.;	ny67h03.s1 NCI_CGAP_GCB1 Homo sapiens cDNA clone IMAGE:1283381 3'	ab23g04.x5 Stratagene lung (#937210) Homo sapiens cDNA clone IMAGE:841686 3' similar to SW:PSM_HUMAN Q04609 PROSTATE-SPECIFIC MEMBRANE ANTIGEN;	zk51c09.r1 Soares_pregnant_uterus_NbHPU Homo sapiens cDNA clone IMAGE:486362 5'
	Top Hit Database Source			L	<u>+ 0</u>		H TN		N TN	-IN		F	TN T		TN TN	EST_HUMAN A	INT			INT TN			NT TN	I I	±Z	N	EST HUMAN	Π		EST_HUMAN 2
	Top Hit Acession No.	11421514 NT		AF233436.2	AF233436.2	1589	AB046818.1	11418514 NT	Y18276.1	AB002297.1	11436955 NT	AJ245621.1		4557752 NT	AF138303.1	AU124065.1	AB038162.1	AB038162.1	X06956.1	X06956.1	9910293 NT	9910293 NT	AF023861.1	AL163209.2	AJ271735.1	D11078.1	AW511225.1	AA744837.1	AI791154.1	AA043738.1
	Most Similar (Top) Hit BLAST E Value	3.0E-50		3.0E-50 /	3.0E-50	_	3.0E-50	3.0E-50	3.0E-50		3.0E-50	3.0E-50	2.0E-50			2.0E-50	2.0E-50	2.0E-50	2.0E-50	2.0E-50	2.0E-50	2.0E-50	2.0E-50	1.0E-50	1.0E-50	_	9.0E-51			9.0E-51
	Expression Signal	1.62		4.85	4.85	0.71	1.21	0.99	0.47	1.03	1.61	5.35	5.38	5.57	2.26	0.69	1.02	1.02	10.04	10.04	1.51	1.51	1.8	1.92	9.48	1.67	121	0.71	0.66	1.23
	ORF SEQ ID NO:	32618		33314	33315			35580	35942		36984			26476		32639	34044	34045	34186	34187	35641	35642		25874		35956				[`{
	SEQ ID NO:	19584	<u> </u>	20214	20214				22725	<u>L</u> _		L	13532	13815	L	19513	20909	20909	21048	L	22435	L	24258	13235	15087		1		١	
	Probe SEQ ID NO:	6667		7544	7544	8481	9718	9727	10077	10415	11045	11441	760	1057	1424	6769	8215	8215	8355	8355	9784	9784	11660	449	2365	10093	5803	6130	8572	9224

Page 304 of 536 Table 4 Single Exon Probes Expressed in Brain

		$\overline{}$	T	Т	T	$\overline{}$	7	7	T-	7	Т	$\overline{}$	T-	Т	7	_	-	_	τ	_	_	_	_	_	_		_	_	_
Single Exoli Plobes Expressed in Brain	Top Hit Descriptor	ab23g04.x5 Stratagene lung (#537210) Homo sapiens cDNA clone IMAGE:841686 3' similar to SW:PSM_HUMAN Q04609 PROSTATE-SPECIFIC MEMBRANE ANTIGEN	ab23g04.x5 Stratagene lung (#837210) Homo sapiens cDNA clone IMAGE:841686 3' similar to SW:PSM HUMAN Q04609 PROSTATE-SPECIFIC MEMRRANE ANTIGEN	W24g06.r1 Morton Fetal Cochlea Homo sabiens cDNA clone IMAGF-253240 5	yw24g06.r1 Morton Fetal Cochlea Homo sapiens cDNA clone IMAGE:253210 5'	hy67h03.s1 NCI CGAP GCB1 Homo sapiens cDNA clone IMAGE:1283381 3	Homo sapiens giveine amidinotransferase (L-ardinine:civeine amidinotransferase) (GATM) mRNA	Homo sapiens glycine amidinotransferase (L-arginine: divcine amidinotransferase) (GATM) mRNA	np98e09.s1 NCI_CGAP_Lu1 Homo sapiens cDNA clone IMAGE:1142440 3' similar to gb:X12671_ma1 HETEROGENEOUS NUCLEAR RIBONUCI EOPROTEIN 41 (H.IMAN).	Homo sapiens PDZ-73 protein (PDZ-734N/-CO-38) mBNA	AU138590 PLACE1 Homo sapiens cDNA clone PLACE1008887 67	Homo saplens PDZ-73 protein (PDZ-73/NY-CO-38), mRNA	xn34a03.x1 NCI_CGAP_Kid11 Homo sapiens cDNA cione IMAGE:2695564 3' similar to TR:Q9Z340 Q9Z340 ATYPICAL PKC SPECIFIC BINDING PROTEIN	QV4-NT0028-200400-180-405 NT0028 Homo saniens cDNA	DKFZp434B2229 r1 434 (swnonym: https://dynosaciens.ch/Acione DKFZp434B2229 r1 434 (swnonym: https://dynosaciens	DKFZp434BZZZ9 r1 434 (synonym: htss3) Homo sabiens cDNA clone DKFZh434BZZZ9 r7	UI-H-BW0-aip-b-05-0-UI,s1 NCI CGAP Sub6 Homo sapiens cDNA clone IMAGE: 2720817 2	Homo sapiens HSPC331 mRNA, partial cds	Homo sapiens KIAA0929 protein Msx2 interacting nuclear target (MINT) homolog (KIAA0929), mRNA	Homo sapiens KIAA0929 protein Msx2 Interaction nuclear farest (MINT) however (KIAA0929) mb NA	Human haptoglobin related (Hor) gene exon 3	Homo saplens mitogen-activated protein kinase kinase 1 (MKK4) gene evon 4	Homo sapiens mitogen-activated protein kinase kinase 1 (MKK4) gene, exon 4	Homo sapiens ribosomal protein S8 kinase, 70kD, polypeptide 1 (RPS6KB1) mRNA	Homo sapiens non-kinase Cdc42 effector protein SPEC2 (LOC56990) mRNA	Homo sapiens cerebral cell adhesion molecule (LOC51148), mRNA	Homo sapiens hypothetical protein FLJ11042 (FLJ11042), mRNA	Homo sepiens hypothetical protein FLJ11042 (FLJ11042), mRNA	Homo sapiens B9 protein (B9), mRNA
gie Exori Pro	Top Hit Database Source	EST_HUMAN	EST HUMAN	EST HUMAN	EST HUMAN	EST HUMAN	N-	LN L	EST HUMAN	Ι	EST HUMAN		EST HUMAN	EST HUMAN	EST HUMAN	EST HUMAN	EST HUMAN	N	۲	È	LN FN	N	NT	FZ	Ę	12	TV	۲۷	Ę
	Top Hit Acession No.	9.0E-51 AI791154.1	9.0E-51 AI791154.1	9.0E-51 H89078.1	9.0E-51 H89078.1	9.0E-51 AA744837.1	4503932 NT	4503932 NT	8.0E-51 AA610842.1	11439587 NT		8.0E-51 11439587 NT		7.0E-51 AW889219.1	Γ		ſ	7.0E-51 AF161449.1	7657266 NT	7657266 NT	X01788.1	AF070083.1	AF070083.1	4506736 NT	11416751 NT	11429665 NT	11428525 NT	11428525 NT	7661535 NT
	Most Similar (Top) Hit BLAST E Value	9.0E-51	9.0E-51	9.0E-51	9.0E-51	9.0E-51	8.0E-51	8.0E-51	8.0E-51	8.0E-51	8.0E-51	8.0E-51	7.0E-51	7.0E-51	7.0E-51	7.0E-51	7.0E-51	7.0E-51	6.0E-51	6.0E-51		6.0E-51		6.0E-51	6.0E-51	6.0E-51	6.0E-51	6.0E-51	6.0E-51
	Expression Signal	0.66	99.0	1.89	1.89	1.43	1.45	1.45	8.43	2.24	1.13	2.02	6.0	1.45	1.37	1.37	2.71	1.34	4.96	14.73	1.56	9.95	9.95	1.02	0.97	. 2.2	0.68	0.68	2.18
	ORF SEQ ID NO:	35231	36232					17762		33325		33325	28430			29520	29681	37603	27426	28876	31634	31648	31649	32615	32564	30540	1	ı	35419
	Exon SEQ ID NO:	22062	22062			li	- 1	17142	17265			20222	15781	16037	16888	16888	17057	24281	14708	16222	18686	18696	18696	19580	19536	17945	21725	21725	22235
	Probe SEQ ID NO:	9400	9400	11455	11455	11823	4405	4405	. 4530	7552	9364	11812	3015	3276	4146	4146	4318	11686	1972	3466	5901	5912	5912	6663	6792	8988	8032	9035	8582

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Table 4
Single Exon Probes Expressed in Brain

Probe SEQ ID NO: NO: 11515 11515 11515 11603 2260 12601 2601 2601 2601 2601 2601 260	SEQ ID NO: 0.00 NO: 0	ORF SEQ ID NO: 37169 37169 37425 37426 26207 26219 28052 28316 28316 28316 28316 28316 28316 28316 28316 28316 28316 28316 28317 33246 28107 28107 28107 28107 28107 28107 28107 28107 28107 28107 28107 28107 28107 28107 28107 33246	Expression Signal 1.52 1.52 1.52 1.52 1.52 1.52 1.52 1.52	Most Similar (Top) Hit BLAST E Value 8.0E-51 6.0E-51 5.0E-51 5.0E-51	Top Hit Acession	Detabase Source Source LHUMAN LHUMAN HUMAN HUMAN HUMAN	Human ankyrin (ANK1) gene, exon 2 Homo sapiens interleukin 17 receptor (IL17R), mRNA Homo sapiens interleukin 17 receptor (IL17R), mRNA Homo sapiens protein phosphatase 2, regulatory subunit B (B56), alpha isoform (PPP2R5A) mRNA Homo sapiens protein phosphatase 2, regulatory subunit B (B56), alpha isoform (PPP2R5A) mRNA Homo sapiens chromosome 21 segment HS21C003 Homo sapiens and protein invasion and metastasis 1 (TIAM1) mRNA Homo sapiens and protein invasion and metastasis 1 (TIAM1) mRNA Homo sapiens and protein associated part homolog (POH1) mRNA Homo sapiens RNA binding molity complete cds Homo sapiens RNA binding molity complete cds Homo sapiens RNA binding molity protein 3 (RBM3), mRNA Homo sapiens RNA binding molity protein 3 (RBM3), mRNA Homo sapiens RNA binding molity protein 3 (RBM3), mRNA Homo sapiens RNA binding molity protein 3 (RBM3), mRNA Homo sapiens RNA binding molity protein 3 (RBM3), mRNA Homo sapiens RNA binding molity protein 3 (RBM3), mRNA Homo sapiens RNA binding molity protein 3 (RBM3), mRNA Homo sapiens RNA binding molity protein 3 (RBM3), mRNA Homo sapiens RNA binding molity protein 3 (RBM3), mRNA Homo sapiens RNA binding molity protein 3 (RBM3), mRNA Homo sapiens RNA binding molity protein (HUMAN); Novel human gene mapping to chomosome 22 Novel human gene mapping to chomosome 22 Novel human gene mapping to protein ligase E3A (human papilloma virus E6-associated protein, Angelman Homo sapiens RNA Homo sapiens CDNA clone IMAGE:37323 5 similar to gb:M14123_cds4 Human Prancreator isletis Homo sapiens cDNA done IMAGE:37323 5 similar to SW:NME1 MOUSE PSA22220 6232226 6233226 RTVL-H PROTEIN; contains LTR7 is LTR7 repetitive element; DI-HBR1-adj-602-601st NOI CGAP_SUSH Homo sapiens cDNA done IMAGE:37323 9 similar to SW:NME1 MOUSE PSA4780 LINAMATE [INDI CGAP_SUSH Homo sapiens cDNA done IMAGE:37693 3' similar to SW:NME1 MOUSE PSA478 3' SUGL CGAP_SUSH Homo sapiens cDNA done IMAGE:378290 9 similar to SW:NME1 MOUSE PSA478 SIBUNIT EPSILON 1 PRECIPSOR; similar to SW:NME1 PSA478 SIBUNIT EPSILON SI
5352	18155	30838	0.7				ob34f09.x5 NCI_CGAP_Kid5 Homo sapiens cDNA clone IMAGE:1325609 3' similar to SW:NME1_MOUSE P35436 GLUTAMATE [NMD4] RECEPTOR SUBUNIT EPSILON 1 PRECURSOR:
5925	18709	31663	3.66			Т	601470446F1 NIH MGC 67 Home canians child along IMA CE 2022 ESC EN
7	3	733,7	20.5				301470446F1 NIH_MGC_67 Homo sapiens cDNA clone IMAGE:3873563 5
7209	19894		0.61	2.0E-51 A		1	Home capiens district in the COCK control of the Cock
		1				┑	Turino sapiens diacyglycerol kinase tota (UCiKI) gene, exon 23

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	_	_		_		_	_	_	_				$\overline{}$	_		_	_						_	
Top Hit Descriptor	Homo sapiens cell recognition molecule Caspr2 (KIAA0868), mRNA	601676787F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3959613 5'	601676787F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3959613 5'	Homo saplens disrupted in schizophrenia 1 (DISC1), mRNA	1874407.x1 NCI_CGAP_GC6 Homo sapiens cDNA clone IMAGE:2236980 3' similar to SW:TRKC_HUMAN Q16288 NT-3 GROWTH FACTOR RECEPTOR PRECURSOR;	MR3-HT0487-150200-113-g01 HT0487 Homo sapiens cDNA	Homo sapiens mRNA for KIAA0457 protein, partial cds	AV682474 GKB Homo saplens cDNA clane GKBAGF05 5	EST91296 Synovial sarcoma Homo sapiens cDNA 5' end	ob34f09.x5 NCI_CGAP_Kid5 Homo saplens cDNA clone !MAGE:1325609 3' similær to SW:NME1_MOUSE P35436 GLUTAMATE [NMDA] RECEPTOR SUBUNIT EPS!LON 1 PRECURSOR ;	ob3409.x5 NCI_CGAP_Kid5 Homo sapiens cDNA done IMAGE:1325609 3' similar to SW:NME1_MOUSE P35436 GLUTAMATE (NMDA] RECEPTOR SUBUNIT EPSILON 1 PRECURSOR;	Homo sapiens myeloid/lymphoid or mixed-lineage leukemia (trithorax (Drosophila) homolog); translocated to, 4 (MLLT4), mRNA	Homo sapiens eukaryotic translation initiation factor 4A, Isoform 1 (EIF4A1) mRNA	AV742248 CB Homo sapiens cDNA clone CBFBCC12 5'	601464995F1 NIH_MGC_67 Homo saplens cDNA clone IMAGE:3868246 5'	b12056t Tests 1 Homo sapiens cDNA clone b12056	te39g02.x1 Soares_NhHMPu_S1 Homo saplens cDNA clone IMAGE:2089106 3'	7o96b02.x1 NCI_CGAP_Ov18 Homo sapiens cDNA clone IMAGE:3644091 3' similar to TR:P87892 P87892 PROTEASE;	AV760590 MDS Hamo saplens cDNA clone MDSCBB02 5'	yq10h04.r1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:196567 5' similar to SP:YGAF_ECOL! P37339 HYPOTHETICAL PROTEIN IN GABP 3'REGION;	yq10h04.r1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:196567 5' slmilar to SP:YGAF_ECOL! P37339 HYPOTHETICAL PROTEIN IN GABP 3'REGION;	295e07.s1 Soares_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:448500 3' similar to contains THR.t3 THR repetitive element;	Inw21g02.s1 NCI_CGAP_GCB0 Homo saplens cDNA clone IMAGE:1241138 3' similar to contains THR.t3 THR repetitive element ;	H. sapiens mRNA for laminin-5, alpha3b chain
Top Hit Database Source	LN.	EST_HUMAN	EST_HUMAN	NT	EST_HUMAN	EST_HUMAN	Ę	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST HUMAN	Ę	N N	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	N
Top Hit Acession No.	7662349 NT	2.0E-51 BE901994.1	2.0E-51 BE901994.1	11037064 NT	2.0E-51 AI917078.1	2.0E-51 BE165980.1	AB007926.1	AV682474.1	2.0E-51 AA378559.1	2.0E-51 AI732851.1	2.0E-51 AI732851.1	11419159 NT	4503528 NT	1.0E-61 AV742248.1	BE779039.1	T18862.1	1.0E-51 AI572532.1	1.0E-51 BF434359.1	1.0E-51 AV760590.1	9.0E-52 R91638.1	9.0E-52 R91638.1	9.0E-52 AA777621.1	AA720574.1	8.0E-52 X84900.1
Most Similar (Top) Hit BLAST E Value	2.0E-51	2.0E-51	2.0E-51	2.0E-51	2.0E-51	2.0E-51	2.0E-51	20E-51	2.0E-51	2.0E-51	2.0E-51	2.0E-51	1.0E-51	1.0E-51	1.0E-51	1.0E-51	1.0E-51	1.0E-51	1.0E-51	9.0E-52	9.0E-52	9.0E-52	8.0E-52	8.0E-52
Expression Signal	1.06	1.72	1.72	96'0	1.45	5.68	9.0	1.77	2.67	8.52	8.52	2.1	5.74	20.32	1.52	4.1	0.94	0.81	2	1.39	1.39	5.36	66.6	1.65
ORF SEQ ID NO:		34432	34433		35261	L				30837	30838				30294			33619		36520			25605	
Exon SEQ ID NO:	1		21291	ı	22090	1	ı	ı	23016		18155	24870	1	1		Ι.	20219	t e	l	23282	<u> </u>	24726	12963	Ш
Probe SEQ ID NO:	7357	8599	8599	8932	9412	9503	9519	10332	10370	11298	11298	12523	112	1479	4959	5305	7549	2803	11783	10587	10587	12301	148	1482

Page 307 of 536 Table 4 Single Exon Probes Expressed in Brain

		т—	_	T	_	_	_	_		_		_		_	_	_	_	_	_	_	_	_	_	_
Top Hit Descriptor	Homo sapiens hypothetical protein FLJ13556 similar to N-myc downstream regulated 3 (FLJ13556), mRNA	Homo sapiens hypothetical protein FLJ13556 similar to N-mvc downstream requiated 3 (FLJ13556) mRNA	Homo saplens hypothetical protein FLJ13556 similar to N-myc downstream regulated 3 (FLJ13556) mRNA	Homo sapiens hypothetical protein FLJ13556 similar to N-mvc downstream requiated 3 (FLJ13556) mRNA	Homo saplens transforming growth factor, beta-induced, 68kD (TGFBI) mRNA	Homo sapiens transforming growth factor, beta-induced, 68kD (TGFBI), mRNA	zc59a06.r1 Soares_parathyroid_tumor_NbHPA Homo sapiens cDNA clone IMAGE:326578 5' similar to contains Alu repetitive element:	QV3-BT0537-271299-049-d07 BT0537 Homo sapiens cDNA	Homo sapiens S164 gene, partial cds, PS1 and hypothetical protein genes, complete cds, and S171 gene, partial cds	lgg4f04.x1 Soares_testis_NHT Homo saplens cDNA clone IMAGE:1838047 3'	tz46h04.y1 NCI_CGAP_Bm52 Homo sapiens cDNA clone IMAGE:2221671 5' similar to SW:PGBM_MOUSE Q05793 BASEMENT MEMBRANE-SPECIFIC HEPARAN SULFATE PROTEOGLYCAN CORE PROTEIN PRECURSOR;	Homo saplens FSHD region gene 1 (FRG1), mRNA	Homo saplens adenylate cyclase activating polypeptide 1 (pitultary) receptor type I (ADCYAP1R1) mRNA	Homo sapiens nucleoporin 155kD (NUP155) mRNA	Homo saplens T-cell lymphoma invasion and metastasis 1 (TIAM1) mRNA	Homo sapiens phosphoribosyl pyrophosphate synthetase-associated protein 2 (PRPSAP2) mRNA	Homo sapiens phosphoribosyl pyrophosphate synthetase associated protein 2 (PRPSAP2) mRNA	601440687F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3915836 5'	Homo sapiens hydroxysteroid (17-beta) dehydrogenase 4 (HSD17B4), mRNA	Homo saplens Ran GTPase activating protein 1 (RANGAP1), mRNA	Homo sapiens DNA for Human Р2XM, complete cds	Homo sapiens hypothetical protein FLJ10675 (FLJ10675), mRNA	Human endogenous retroviral DNA (4-1), complete retroviral segment	Human endogenous retroviral DNA (4-1), complete retroviral segment
Top Hit Database Source	TN	LN.	TN	N	LN	LN	EST HUMAN	Π	F	EST HUMAN	EST HUMAN		FZ	FN	Į.	Į.		EST_HUMAN			LN LN	TN.		IN
Top Hit Acession No.	11968028 NT	11968028 NT	11968028 NT	11968028 NT	11416585 NT	11416585 NT	N56471.1	3E072409.1	AF109907.1	N208794.1	E048172.1	37365	4501922 NT	4758843 NT	4507500 NT	4506132 NT	4506132 NT	E622032.1	11417035 NT	11418177 NT	\B002059.1	11437042 NT	110976.1	110976.1
Most Similar (Top) Hit BLAST E Value	8.0E-52	8.0E-52	8.0E-52	8.0E-52	8.0E-52	8.0E-52	7.0E-52	6.0E-52	6.0E-52	6.0E-52	6.0E-52 B	5.0E-52	4.0E-52	4.0E-52	4.0E-52	4.0E-52	4.0E-52	4.0E-52 B	4.0E-52	4.0E-52	4.0E-52	3.0E-52	2.0E-52 N	2.0E-52 A
Expression Signal	3.13	3.13	9.9	6.6	79.0	79.0	2.04	92.0	4.27	98.0	187	9.0	1.32	1.02	66.0	1.33	1.33	1.74	5.48	5.11	5.23	10.57	2.88	2.88
ORF SEQ ID NO:	27085	27086	27085	27086	33178	33179	34745		27129	31349	37119	35132	27165	27225	29297	30633	30634	33760	34263					25963
Exon SEQ ID NO:	14396	14396	14396	14396	20094	20094	21602	13918	14433	18436	23837	21959	14466	14521	16656	18012	18012	20633	21125	24631	24930	16815	13332	13332
Probe SEQ ID NO:	1650	1650	3976	3976	7417	7417	8911	1164	1689	5841	11170	9292	1723	1780	3906	5204	5204	7938	8432	12143	12627	4071	549	549

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Top Hit Descriptor	bb68b07.y1 NIH_MGC_9 Homo sepiens cDNA clone IMAGE:3030421 6' similar to gb:X16493 M.musculus mRNA for Zpf-1 zinc finger protein (MOUSE);	602084710F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:4248891 5'	Novel human gene mapping to chromosome 20, similar to membrane transporters	qa56e05.s1 Soares_NhHMPu_S1 Homo sapiens cDNA clone IMAGE:16907843'	qa56e05.s1 Soares_NhHMPu_S1 Homo sapiens cDNA clone IMAGE:1690784 3'	IL3-CT0214-231299-053-E12 CT0214 Homo sapiens cDNA	Homo sapiens interleukin 21 receptor (IL21R), mRNA	Homo saplens mRNA for KIAA1081 protein, partial cds	os45d12.y5 NCI_CGAP_Br2 Homo sapiens cDNA clone IMAGE:1608311 5'	Macaca mulatta beta-tubulin mRNA, complete cds	z/45g05.s1 Soares_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA.clone IMAGE:453272.3'	Homo septens NADH dehydrogenase (ubiquinone) Fe-S protein 5 (15kD) (NADH-coenzyme Q reductase) (NDUFS5) mRNA	Homo saplens SET domain and mariner transposase fusion gene (SETMAR) mRNA	Homo sapiens SET domain and mariner transposase fusion gene (SETMAR) mRNA	wj49c04.x1 NCJ_CGAP_Lu19 Homo saplens cDNA clone IMAGE:2406150 3' similar to contains THR.b2 THR repetitive element ;	wj49c04.x1 NCI_CGAP_Lu19 Homo sapiens cDNA clone IMAGE:2406150 3' similar to contains THR.b2	THR repetitive element ;	AV715377 DCB Homo sapiens cDNA clone DCBAIE03 5'	zd49g12.r1 Soares_fetal_heart_NbHH19W Homo sapiens cDNA clone IMAGE:344038 57	Homo sapiens LIM domain kinase 2 (LIMK2), mRNA	xn72e07.x1 NCI_CGAP_CML1 Homo sapiens cDNA clone IMAGE:2700036 3' similar to contains Aturepetitive element; contains element LTR2 repetitive element;	wf67d05.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2360649 3' similar to TR:Q16859	Q16859 CARBOXYLESTERASE;	zu75h12.s1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:743879 3'	Homo sapiens glutamate-ammonia ligase (glutamine synthase) (GLUL) mRNA	Homo sapiens arylsulfatese D (ARSD), transcript variant 1, mRNA	pol=reverse transcriptase homolog (retroviral element) [human, endogenous retroviral element RTVL-Hp1,	Human P-olycoprotein (MDR1) gene, exon 4	Human PMS2 related (hPMSR2) gene, complete cds
Top Hit Database Source	EST HUMAN	EST_HUMAN	۲	EST_HUMAN	EST_HUMAN	EST_HUMAN	LN	TN	EST_HUMAN	IN	EST_HUMAN	LN	F	P	EST_HUMAN		EST_HUMAN	EST_HUMAN	EST_HUMAN	LN	EST_HUMAN		EST_HUMAN	EST_HUMAN	LN	ΤN	HV	LN	LN
Top Hit Acession No.	BE207575.1	BF677892.1	AL137188.3	Al141802.1	AI141802.1	AW848041.1	11141868 NT	AB029004.1	AI792146.1	AF147880.1	AA778795.1	TN 6878518	5730038 NT	5730038 NT	AI831462.1		AI831462.1	AV715377.1	W70260.1	11417990 NT	AW236297.1	 	AI808985.1	AA634445.1	4504026 NT	4502238 NT	P 02.0795	M29426.1	U38964.1
Most Similar (Top) Hit BLAST E Value	2.0E-52	2.0E-52	2.0E-52	2.0E-52	2.0E-52	2.0E-52	2.0E-52	2.0E-52	2.0E-52	2.0E-52	2.0E-52	2.0E-52	2.0E-52	2.0E-52	2.0E-52		2.0E-52			2.0E-52	2.0E-52			1.0E-52	1.0E-52	1.0E-52	4 05 52	1 0E-52	1.0E-52
Expression Signal	2.04	6.03	2.13	1.29	1.29	4.11	1.96	66.0	1.17	9.03	0.81	0.88	5.53	5.53	3.15		3.15	3.09	1.72	2.76	24.36		4.49	1.96	37.84	6.0	7.8.7	4.35	2.51
ORF SEQ ID NO:	27963		30260	30287			32024	32390	32571		34672			35880	37111			37131			30601			25937			39786	ľ	
Exan SEQ ID NO:	15220	15446	17648	17678	17678	18413	19047	19376	19543	21243	21526	21954	ı	22663	23832		23832	23845	24016	24215	25408		24756	13304	14098	15252	15824	1	
Probe SEQ ID NO:	2503	2740	4920	4952	4952	5617	6274	6613	6843	8551	8834	9379	10015	10015	11165		11165	11178	11325	11618	11961		12350	520	1350	2537	3055	5250	6300

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Table 4
Single Exon Probes Expressed in Brain

1		T	_	т-	T-	т-	т-	_	т-	_	$\overline{}$	_	- 1	_	_	_	_	Т	T	Υ-	7-	_	т-	т -	_	_	_	_	_	_	_	_	_	_	_
Oligie Lydin France Lypressed III Digiti	Top Hit Descriptor	Human aldolase C gene for fructose-1,6-bisphosphate aldolase	Homo sapiens chromosome 21 segment HS21 C027	Rattus norvegicus putative four repeat ton channel mRNA, complete cds	df08g05.y1 Morton Fetal Cochlea Homo sapiens cDNA clone IMAGE:2483145 5'	Homo sapiens chromosome 21 segment HS21C002	Homo sapiens protein tyrosine phosphatase PTPCAAX1 (hPTPCAAX1) mRNA, complete cds	Homo sapiens proteasome (prosome, macropain) subunit, beta type, 2 (PSMB2), mRNA	Homo sapiens protein kinase, cAMP-dependent, regulatory, type II, beta (PRKAR2B) mRNA	Homo sapiens core binding factor alpha1 subunit (CBFA1) gene, exon 3	601904771F1 NIH_MGC_54 Homo saplens cDNA clone IMAGE:4132793 5'	#44f07.x1 NCI_CGAP_Brn23 Homo sapiens cDNA clone IMAGE:2099077 3' similar to contains THR.11	AN172726E1 AILU MOC 47 Long continue and a continue and a contract of the annual and a continue	ocition of the management of the months of the management of the management of the months of the mon	Homo saplens heterogeneous nuclear ribonucleoprotein C (C1/C2) (HNRPC) mRNA	RC3-ST0197-151099-011-g10 ST0197 Homo sapiens cDNA	Homo sapiens chromosome 21 segment HS21C085	Homo sapiens chromosome 21 segment HS21C085	Homo sapiens hook1 protein (HOOK1), mRNA	Iy08h04.x1 NCI_CGAP_Ut3 Homo sapiens cDNA clone IMAGE:2278327 3'	HSC3ID041 normalized infant brain cDNA Homo sapiens cDNA clone c-3id04	601810969F1 NIH_MGC_48 Homo sapiens cDNA clone IMAGE:4053977 5'	601810969F1 NIH_MGC_48 Homo sapiens cDNA clone IMAGE:4053977 5'	Homo sapiens DNA, DLEC1 to ORCTL4 gene region, section 1/2 (DLEC1, ORCTL3, ORCTL4 genes,	complete cas)	L2-UM0081-240300-055-D03 UM0081 Homo sapiens cDNA	Homo sapiens 26S proteasome subunit 9 mRNA, complete cds	Homo sapiens MIL1 protein (MIL1), mRNA	QV/1-HT0412-280300-123-c04 HT0412 Homo saplens cDNA	H.saplens graf gene	H.sapiens graf gene	GIF≂growth inhibitory factor [human, brain, Genomic, 2015 nt]	Homo sapiens bone morphogenetic protein 5 (BMP5), mRNA	Homo sapiens FGFR1 oncogene partner (FOP), mRNA	Homo saplens hypothetical protein FLJ20644 (FLJ20644), mRNA
פום באטור זט	Top Hit Database Source	۲	۲	F	EST_HUMAN	IN	Į.	N	NT	FZ	EST_HUMAN		EST HUMAN	NIMINION I CI	LN	EST_HUMAN	NT	NT	ΙN	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	1	Z	EST_HUMAN	NT	TN	EST_HUMAN	NT	TN	LN	NT	TN	L
5	Top Hit Acession No.	52 X07292.1	52 AL 163227.2	52 AF078779.1	1.0E-52 AW020370.1	52 AL163202.2	52 U48296.1	11426321 NT	4506064 NT	9.0E-53 AF001446.1	7.0E-53 BF238465.1	1404-700-4	7.0E-53 AI421/82.1	05,2307 19.1	4758543 NT			4L163285.2	4.0E-53 7705414 NT	.1			4.0E-53 BF128701.1			3.0E-53 AW803563.1	3.0E-53 AF001212.1	26297	3.0E-53 BE160025.1				10835090 NT	5901953 NT	8923599 NT
	Most Similar (Top) Hit BLAST E Value	1.0E-52)	1.0E-52	1.0E-52 /	1.0E-52	1.0E-52 /	1.0E-52	1.0E-52	9.0E-53	9.0E-53 /	7.0E-53	10.1	7.UE-53 /	0.00	5.0E-53	5.0E-53/	4.0E-53 /	4.0E-53 /	4.0E-53	4.0E-53 /	4.0E-53 F13080.1	4.0E-53 E	4.0E-53	10.0	3.0E-53/	3.0E-53 /	3.0E-53 /	3.0E-53	3.0E-53	3.0E-53 Y10388.3	3.0E-53 Y10388.3	3.0E-53 S72043.1	3.0E-53	3.0E-53	3.0E-53
	Expression Signal	5.31	1.2	0.75	1.03	1.39	1.61	2.09	1.05	1.96	3.18	7	4.92	30:-	2.28	1.58	2.76	2.76	1.03	0.66	0.67	2.78	2.78	ţ	1:1	0.74	0.7	0.82	0.85	1.04	1.04	12.52	0.65	8.41	2.79
	ORF SEQ ID NO:	33090		34940			36296		29161	29732			20422	30,426	29448		25502						37127	7770	4116	20914	30803	31243	31846	32740	32741	34034	34597		37748
	Exon SEQ ID NO:		21057	21776	, ,	23132	23356	23427	16523	17097	24660	200.30	17805	300	16822	24688	12877	12877	17503	21983	22308	23842	23842	100	2	17284	18142	18336	18879	19690	19690	20897	21450	21646	24410
	Probe SEQ ID NO:	7330	8364	9087	10476	10486	10665	10740	3771	4359	12189	4.2600	2000		4078	12236	\$	84	4771	9316	9656	11175	11175	000	600	4549	5339	2238	6101	8669	8669	8203	8758	8955	11826

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Single Exon Probes Expressed in Brain	Top Hit Descriptor	EST77525 Pancreas tumor III Homo sapiens cDNA 5' end	Homo sapiens Bruton's tyrosine kinase (BTK), alpha-D-galactosidase A (GLA), L44-like ribosomal protein (L44L) and FTP3 (FTP3) genes, complete cds	Homo sapiens ATPase, H+ transporting, lysosomal (vacuolar proton pump) 31kD; Vacuolar proton-ATPase, subunit E; V-ATPase, subunit E (ATP6E), mRNA	Homo sapiens core-binding factor, runt domain, alpha subunit 2; translocated to, 1; cyclin D-related (CBFA2T1) mRNA	Homo sapiens core-binding factor, runt domain, alpha subunit 2; translocated to, 1; cyclin D-related (CBFA2T1) mRNA	Homo sapiens dihydropyridine receptor alpha 2 subunit (CACNA2D1) gene expn 6	Human Krueppel-related DNA-binding protein (TF34) gene, partial cds	PM1-CT0396-170800-001-g03 CT0396 Homo sapiens cDNA	PM1-CT0396-170800-001-g03 CT0396 Homo sapiens cDNA	EST387707 MAGE resequences, MAGN Homo sapiens cDNA	2822665.5prime NIH_MGC_7 Homo sapiens cDNA clone IMAGE:2822665 5'	Homo sapiens Xq pseudoautosomal region; segment 2/2	Homo sapiens DNA, DLEC1 to ORCTL4 gene region, section 1/2 (DLEC1, ORCTL3, ORCTL4 genes, complete cds)	CM4NN1029-150800-543-602 NN1029 Home capiene cDNA	RC5-BN1058-270400-031-D01 BN1058 Homo sapiens cDNA	Il9571.seq.F Human fetal heart, Lambda ZAP Express Homo sapiens cDNA 5'	H.sapiens mRNA for hnRNPcore protein A1	H.sapiens mRNA for myosin-IE	H.sapiens mRNA for myosin-IE	2822943.3prime NIH_MGC_7 Homo sapiens cDNA clone IMAGE:2822943 3'	Homo sapiens IQ motif containing GTPase activating protein 1 (IQGAP1) mRNA	601272863F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3614031 5	Homo sapiens insulin-like growth factor 2 receptor (IGF2R) mRNA	Homo sapiens ATP-binding cassette, sub-family A (ABC1), member 8 (ABCA8), mRNA	ai/9c12.s.1 Soares_testis_NHT Homo sapiens cDNA clone 1377046 3' similar to contains MER30.t3 MER30 repetitive element;	Homo sapiens mRNA for monocyte chemotactic protein-2	w68d12.s1 Soares_placenta_8to9weeks_2NbHP8to9W Homo sapiens cDNA clone IMAGE:257399 3' similar to contains LTR7.b3 LTR7 repetitive element;
jie Exon Probe	Top Hit Database Source	EST_HUMAN E	N T				Ĭ	IN	EST HUMAN P	EST_HUMAN PI	HUMAN	EST_HUMAN 28		¥ 8	T HUMAN	T	EST_HUMAN II9	H	NT H	H	EST_HUMAN 28		EST_HUMAN 60			ai7 EST_HUMAN rep	Г	EST_HUMAN sin
dic	Top Hit Acession No.	AA366556.1	U78027.1	4502316 NT	4757915 NT	4757915 NT	AF083822.1		BF334740.1	BF334740.1		AW 245676.1	AJ271736.1	AB026898.1	BF364201.1		AA249072.1			X98411.1	AW245422.1	4506786 NT	BE386785.1	4504610 NT	6005700 NT	AA812537.1	Y16645.1	N27177.1
	Most Similar (Top) Hit BLAST E Value	2.0E-53	2.0E-53	2.0E-53	2.0E-53	2.0E-53	2.0E-53		2.0E-53			2.0E-53	1.0E-53	1.0E-53	1.0E-53		1.0E-53	1.0E-53	1.0E-53	. 1.0E-53	1.0E-53	9.0E-54	8.0E-54	8.0E-54	8.0E-54	7.0E-54	7.0E-54	7.0E-54 I
	Expression Signal	5.82	2.79	8.73	1.46	1.48	3.72	2.53	2.67	2.67	1	3.82	1.51	1.08	1.62	0.68	0.54	5.91	1.41	1.41	2.29	6.18	2.4	1.77	26.87	1.27	1.65	6.38
	ORF SEQ ID NO:		27788		28172	28173	28651	29411	30804	30805	33590		26860	28813	32370	32903	33658	34826	37757	37758	37255	30651	25855	27278	31568	25845	27273	27667
	Exon SEQ ID NO:	13231	15052	15253	15436	15436	16001	16781	18143	18143	20466	21975	14175	16162	19356	19834	20531	21677	24417	24417	24507	25063	13015	14566	18633	13200	14561	14930
	Probe SEQ ID NO:	445	2327	2538	2729	2729	3239	4036	5340	5340	77,0	9308	1428	3404	9233	7147	7836	8987	11833	11833	11955	5219	202	1827	5845	375	1822	2202

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Page Euro Operago European Circ February Circ Febr					_				_		_	_	_																	
Exon ORF SEQ Expression (Top Hit Acession of Top Hit	bes Expressed in Brain	Top Hit Descriptor		I round sapiens similar to nuclear factor related to kappa B binding protein (H. sapiens) (LOC63182), mRNA	Homo sapiens gogin-like protein (GLP), mRNA	Troing septents gright-like protein (SLP), mKNA quedigoda, xt. Soares_fetal_heart_NBHH190V Homo sapiens cDNA clone IMAGE:1705204 3' similar to contains OFR.tt OFR repetitive element	Homo sepiens jun dimerization protein dene, partial cris: crins nano commisso de commisso	unknown gene	Home capiers Jun dimenzation protein gene, partial cds; cfos gene, complete cds; and unknown gene	Home septens DIVA for MICE, exch 4, 5 and partial cds	Homo sapiens himothetical protein DKF 2P434M035 (DKF2p434M035), mRNA	Home serious broad-being in the Lots of th	Home sapiens chloride change of or one of the control of the contr	AV754748 TP Home contained of CLCNB) mRNA	Home sarions shared state in the individual state in the sarions sario	Hearlens showed a management of the second and the	RC2-ST0197-151000 011 90 ST000TH	ZINC FINGER PROTEIN 84 ZINC FINGER DESCREEN INDEX	Tubala belangeri beta-actin mRNA partial At	EST177698 Jurkat T-cells VI Homo sapiens cDNA 5' end similar to glyceraldenyde-3-phosphate	Human mRNA for KIA Anot77 conc	Human mRNA for KIAAn077 gene neddoledd	wd26d11.x1 Soares. NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2329269 3' similar to TR:002711	PST/8627/ Chr. 2001 Chr. 2	Advance of NCI Control and (HCC) cell line Homo saplens cDNA 5' end	DKEZAJAERZA A 22 (2000 Homo sapiens cDNA clone IMAGE:2816542 3	L BT189.190300 007 DT100 U.S. Home Sepiens cDNA clone DKFZp434E0731 5	Homo saniane RMV was consider that it is the constant that the con	alg2co8.st Scares, narathyraid, firmor NHLDA U	ai92c08.s1 Scares_parathyroid_tumor_NbHPA Homo sapiens cDNA clone IMAGE:1388270 3′
Exon NO: ID NO: ID NO	Igle Exon Pro		FZ	2	-N	EST HUMAN	L	i-V	FZ	Į	Į.	LZ	Į	1	.1	L	EST HUMAN	SWISSPROT	LZ	ST HUMAN	- L	Ę	Т	Т	T	Т	T		T HUMAN	
Exon NO:: ORF SEQ ID NO:: Expression Signal: Most Similar PLAST E 22676 35892 2.08 7.0E-54 23717 36987 1.74 7.0E-54 23400 37736 1.49 7.0E-54 23400 37737 1.49 7.0E-54 13201 25846 6.83 6.0E-54 13201 25846 1.41 6.0E-54 13201 25846 6.83 6.0E-54 13201 25846 6.83 6.0E-54 13201 25846 6.83 6.0E-54 16038 22400 37737 1.49 7.0E-54 17850 25846 6.83 6.0E-54 1765 28794 0.86 6.0E-54 1750 30145 1.71 6.0E-54 1750 27248 6.0E-54 14538 27248 3.22 4.0E-54 14312 25556 4.47 3.0E-54 16603 27249 3.0E-54		Top Hit Acession No.	41447939	8923698	8923698	Al160189.1	AF111167.2	AF111167 2	AB003618 1	8922148	8922148	8922148	4502872		5806									T	T	T		02434		П
Exon ORF SEQ Express NO: NO: NO: NO: Signa NO: Signa 22874 36987 23923 23923 23923 25946 13201 25846 13201 25846 13201 25846 13201 25846 13201 25846 13201 25846 13201 25846 13201 25846 13201 25846 13201 25846 13201 25846 13201 25846 13201 25846 13201 25846 13201 25846 13201 25846 14528 28026 0 13249 31531 1 18903 31531 1 19971 33049 15981 19971 33049		Most Similar (Top) Hit BLAST E Value	7.0E-54	7.0E-54	7.0E-54	_				6.0E-54	6.0E-54	6.0E-54	6.0E-54	6.0E-54	6.0E-54	6.0E-54	6.0E-54/			l	4.0E-54						3.0E-54 A	3.0E-54	3.0E-54 A	3.0E-54 A
Exon OR SEQ iD NO:		Expression Signal:	2.08	1.74	1.74	4.35	1.49	1.49	1.41	6.83	6.83	0.77	1.91	0.86	1.78	1.15	1.51	3.78	13.34	67.5	3.22	3.22	_	4.47	0.91	96.0	1.34	1.74	2.1	2.1
0				L				37737	25465	25846	26847	28688	29368	29794	30145		36430	27611		26368	27248	27249		25555		28025		31531	33048	33049
Probe SEQ ID NO: 110028 11047 11047 11081 11811 11811 11811 11811 11811 11811 11811 11811 11811 11811 11811 11811 11812 11838				23717	23717	23923	24400	24400	12850	13201	13201	16038	16734	17165	17523	17550	23199	14876	12990	13703	14538	14538	15962	12918	14312	15288	15342	18603	19971	19971
		Probe SEQ ID NO:	10028	11047	11047	11261	11811	11811	. 22	376	376	3277	3986	4429	4792	4819	11432	2148	1/8	936	1798	1798	3189	92	1565	2574	2630	5814	7288	7288

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Single Exon Probes Expressed in Brain	Most Similar and Top Hit Acession BLAST E No. Source Top Hit Descriptor Top Hit Acession Source	3.0E-54 11434808 NIT	3.0E-54 BF345600 1 FST HIMAN	3 0E-54 AA393362 1 EST HILLIAM	3.0E-54 AW954559 1 FET LIMAN	3.0E-54 AW7489651 EST LIMAN	2.0E-54 5031900 NT	2.0E-54	2.0E-54 AA655008 1 FST HIMAN	2 0F-54 AW183175 4 EST UIMAN	2.0E-54 AL163210.2 NT	2 0E-54 AW057524 4 EST UNIVANI	2.0E-54 AJ278314.1 NT	2 0E-54 & ACCCCOA 4	2.0E-54 4502642 NT	2.0E-54 7706446 NT	2.0E-54 4759069 NT	2.0E-54 BE04786	2.0E-54 11426657 NT	2.0E-54 AB046811.1 NT	2.0E-54 AB046811.1 NT	2.0E-54 AF008915.1 NT	2.0E-54 AB023212.1 NT	2.0E-54 AB023212.1 NT	2.0E-54 11426544 NT	2.0E-54 AB001025.1 NT	2.0E-54 11429127 NT	2.0E-54 11416762 NT	2.0E-54
	は、質	3.0E-54	3.0E-54 BF34	3.0F-54 AA30	3.0E-54 AW95	3.0E-54 AW74	2.0E-54	2.0E-54	2.0E-54 AA65	2 0F-54 AW18	2.0E-54 AL163	2.0E-54 AW05	2.0E-54 AJ278	2 0F-54 AA532	2.0E-54	2.0E-54	2.0E-54	2.0E-54 BE047	2.0E-54	2.0E-54 AB046	2.0E-54 AB048	2.0E-54 AF008	2.0E-54 AB023	2.0E-54 AB023	2.0E-54			2.0E-54	2.0E-54
	Expression Signal	1.63	4.93	3.26	2.98	2.51	8.86	96.0	1.37	1.22	1.85	1,52	1.18	3.2	2.08	1.02	1.64	1.2	5.04	13.99	13.99	0.68	0.65	0.65	8.8	4.11	0.79	1.01	1.01
	ORF SEQ ID NO:		36959	37335	31119		26040	26767	26972	27995	28062	28311	28721			30178	30880	31216	31385	31489	31490	32331	32672	32673	32772	35366	35753	35885	35886
	Exon SEQ ID NO:	23627	23696	24031	24573	L.		14092	14286	15255	15320	15683	16071	16292	16921	17558	18188	18314	18469	18562	18562	19324	19628	19628	19715	22182	22558	22669	22669
	Probe SEQ ID NO:	10949	11024	11341	12056	12097	627	1344	1539	2541	2608	2896	3311	3538	4181	4825	5388	5516	2875	5//1	5771	8000 000	8/13	2	7023	9250	6066	10021	10021

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				SNA			d region of Human					5 similar to	similar to TR:060365								162617 3'	626173	536 3'					A			mRNA .	
Single Exon Probes Expressed in Brain	Top Hit Descriptor		nama sapiens EVI5 homolog mRNA, complete cds	nome septens pescadillo (zebrafish) homolog 1, containing BRCT domain (PES1), mRNA	2:10:00 -1 Socret Common September CONA clone IMAGE:4128535 5	Zurocos. I Soares Lestis NH Homo sapiens cDNA clone IMAGE:731464 5	AU077341 Sugano cDNA library Homo sapiens cDNA clone IMAGE:731464 5 AU077341 Sugano cDNA library Homo sapiens cDNA clone Zrv6C880 similar to 5'-end region of Human	garina-glutamy transpeptitiese mRNA, 5 end	Umas series DEPas	Homo conjuna DED20	flo2a02.x1 NIH MGC 17 Home conjunction with a least 18.00 and 19.00 and 19.0	V/28e04.r1 Soares fetal liver speen NELS Homo saplens cDNA clone IMAGE:127998 5' similar to SP-C551 ROVIN PARSOT XXTOCHONE.	xd76c02.x1 Soares NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2603522 3' similar to TR:060385	0603614 of 50000 ft. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	AL1/30000 DI ACE LUCATION NO SEPTENS CON CONE IMAGE:1407260 3'	A2000 STACE I Homo sapiens culva clone PLACE1011576 5	1429193.X1 NOL COAP LICT Homo sapiens cDNA clone IMAGE:2210249 3'	wested 27 of Social Inc. London Sapiens con Clone IMAGE:2210249 3:	Homo soniest mobile 6-17/14 A 1-15.	zi95b09 s1 Soares fetal lives and a visit of states	295b09.s1 Soares fetal liver select 1 NFLS St II	UI-HBII-aften98-01 II st NOT COAD Stand	Homo saplens an/sulfatase E (chandral calcal and a 17,000 calcal a	Homo saplens andstriffstate E (characted - 1 - 1	Homo sapiens parenchase 2 (DONIS) - DNA	Homo saplens paracopase 2 (PON2) mPNA and translated products	Homo saplens Rho GTPase activating anatoling (ABUCARE)	Homo sapiens speckle time PO7 profess (SPOD) - DNA	Homo sabiens BCI 2-associated afternoons (2007), mixing	Iomo sapiens protein tracing them the	RC4BT0310-110300-015-110 BT0310 Home conference apply polypeptide (PTPRA) mRNA	Homo saplens mRNA for KIAA0611 protein, partial cds
gle Exon Pro	Top Hit Database Source	FIN	L L	FOT LIBAAN	EST HIMAN	EST HIMAN	TOTAL LINAS	EST CHIMAN	TA LIN	Į.	EST HUMAN	EST HUMAN	FOT UI MAN	ENT LINAM	Т	Т	EST HIMAN	HIMAN		Т	EST HUMAN	Т									T HUMAN	
Sin	Top Hit Acession No.	2 0E-54 AF008015 1	7657454 NT	BF31541	AA412409.1	1.0E-54 AA412409 1					1.1	R09346.1	ğ	T	T	T	Ī		-		AA704971.1		4502240 NT	4502240 NT	4505952 NT	4505952 NT	7382477 NT	11434422 NT	11526491 NT	4506302 NT	BE064386.1 E	AB014511.1 NT
	Most Similar (Top) Hit BLAST E Value	2 0F-54	2.0E-54	1.0E-54	1.0E-54	1.0E-54	1.0F-54		8.0E-55	8.0E-55		7.0E-55	7.0E-55	7.0E-55/	7.0E-55/	7.0E-55/	7.0E-55	7.0E-55	6.0E-55	5.0E-55	5.0E-55 A	5.0E-55 A	5.0E-55	5.0E-55	5.0E-55	5.0E-55	5.0E-55	5.0E-55	5.0E-55	5.0E-55		5.0E-55 AI
•	Expression Signal	1.57	2.86	1.22	0.52	0.52	2.17	0.94	1.09	2.63	1.67	77.0	0.8	1.26	2.16	10.32	10.32	2.5	2.45	1.19	1.19	1.81	1.65	1.65	1.34	1.34	0.83	0.7	0.72	3.53	1.75	1.77
	ORF SEQ ID NO:	32331			36018	36019		36115				26479	-	34932	34968	37120	37121		37412	27205	27206	30086	32211	32212	32340	32341	32718	32955	33718	34777		35786
	Exon SEQ ID NO:	19324	24321	17168	22801	22801	24986	22905	14041	14044	23818	13817	21395	21769	21803	23838	23838	25303	24099	14505	14505	17452	19214	19214	25094	25094	19672	19881	20588	21633	21898	22585
	Probe SEQ ID NO:	10947	11727	4432	10153	10153	12710	10257	1292	1295	11151	1059	8703	8080	9115	11171	11171	12682	11498	1763	1763	4720	6446	6446	6568	6568	6937	7195	7893	8942	9219	9937

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						RNA		a' chullar ta	2					T	T	T												suggested in					Spo
Single Exon Probes Expressed in Brain	Top Hit Descriptor		Homo sapiens mRNA for KIAA0611 protein, partial cds	Homo sapiens nel (chicken)-like 2 (NELL2), mRNA	Homo sapiens pescadillo (zebrafish) homolog 1, containing BRCT domain (PES1), mRNA	Homo sapiens RNA binding motif protein, Y chromosome, family 1, member A1 (RBMY1A1) mRNA	Homo sapiens predicted osteoblast protein (GS3786), mRNA	Trumo septems predicted ostaboliast protein (GS3786), mRNA 7/52510.x1 Soares_NSF_F8_9W_OT_PA_P_S1 Homo septems cDNA clone IMAGF:339nn43 3' similar to	contains £1.t3 £1 repetitive element;	nomo sapiens proteasome (prosome, macropain) subunit, alpha type, 2 (PSMA2) mRNA	nomo sapiens proteasome (prosome, macropain) subunit, alpha type, 2 (PSMA2) mRNA	Homo sapiens diacylglycerol kinase, gamma (90kD) (DGKG) mRNA	romo sapiens diacylglycerol kinase, gamma (90kD) (DGKG) mRNA	nomo sapiens ubiquitin-conjugating enzyme E2 variant 1 (UBE2V1) mRNA	namo sapiens Xq pseudoautosomal region; segment 1/2	namo sapiens chromosome 21 segment HS21C010	43cb Human retina cDNA randomly primed sublibrary Homo sapiens cDNA	601886575F2 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:4120338 5'	FM1-H 10603-090300-001-908 HT0603 Homo sapiens cDNA	Homo sapiens chromosome 21 segment HS21C084	Human endogenous retrovirus pHE.1 (ERV9)	Human endogenous retroviral DNA (4:1), complete retroviral segment	I MILE HOUSE SMIRKIN-Dinding protein 1 (STXBP1) mRNA, and translated products	III.HE BNO 2/2 f 08 0 11 1 1 1 1 2 2 2	Print - DING-RASI-00-U-UI.TI NIH MGC 50 Homo sapiens cDNA clone IMAGE:3078275 5'	hr76h08 x1 NCL CGAP Ki441 Documents CDNA clone IMAGE;3134463 3'	am98h05.s1 Stratagene schizo brain S11 Homo saplens cDNA clone IMAGE 1884/85 31 chemina to control of the contr	THR.b2 THR repetitive element;	QVO-BN0147-280400-213-906 BN0147 Homo sapiens cDNA	AU119344 HEMBA1 Homo sapiens cDNA clone HEMBA1005583 5	Homo sapiens mannose-8-phosphate receptor (cation dependent) (M6PR) mRNA	Openbanic eminimization New Zeefeet 1.1	Homo sapiens mRNA for KIAA0903 protein, partial cds
igle Exon Pro	Top Hit Database Source	1	Ž.	Z	Z	2 2	- FN	100	NA TOWAN	Į.		2 1		- PIA	2 2	NI FOT	ES L HUMAN	ES HUMAN	ES L HOMAN	L.	FI		EST HIMAN	EST HIMAN	EST HIMAN	Т	Т	T	П	HUMAN		<u>-</u> -	
is	Top Hit Acession No.	A DO4 454 4 4	5.0E 66	144707011	TIM 07090A	7864749 N	7661713 NT	BED64444 4	AFORAGO NIT	4508480 NT	4503344 NIT	4500014 IN T	4507704 NT	A 1271795 4			1	T	1	T		1507208	BE719986.1					1	7	AU118344.1	4505060 NT	J09823.1	AB020710.1
	Most Similar (Top) Hit BLAST E Value	5 OF 55	20.00	5.0F-55	4.0F-55	4 0F-55	4.0E-55			4.0E-55	4.0F-55	4 0F-55	4.0E-55	4.0E-55.0	4.0E-55 A	4 0F-55 V	4 OF -55 B	3.05.55	3 OF 55 A		2 0F-55 M	2.0E-55		2.0E-55 A	2.0E-55 B	2.0E-55 BI	2 00 55		Z.UE-35 B	2.0E-30 A	1.05-55	1.0E-55 UC	1.0E-55 AE
	Expression Signal	177	97.0	2.73	65.4	1.78	1.78	1.7	0.97	0.97	6.47	6.47	2.29	1.21	8.37	2.3	3.05	1.00	1 85	1.98	1.13	13.79	2.91	0.78	0.52	0.52	833	220	7/0	60.0	50.6	8.22	3.53
	ORF SEQ ID NO:	35787			26075		26854		27482	27483	27542	27543	27771							25807		26049	30090	33162	34804	34805			39798	25558	20000	25636	26543
	Exon SEQ ID NO:	22585	L		13434	14169	14169	14250	14754	14754	14811	14811		15310		23859	24574	24536	24993	13164	13321	13413	17455	25113	21654	21654	21747	21828	23550	12921		12997	13883
	Probe SEQ ID NO:	9937	10122	12137	657	1421	1421	1504	2019	2019	2079	2079	2308	2596	8242	11194	12057	11998	12721	368	929	634	4723	7403	8963	8863	8028	9140	10870	95		184	1127

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Table 4
Even Denhas Exercised in Page

Single Exon Probes Expressed in Brain	t Similar Top Hit Acession Database ASTE No. Database Source	55 BE277861 1 FCT HIMAN	55 BE277861 1 FST HIMAN	55 5803174	55 AF000990.1 NT	55 X13111,1 NT	55 AB007866.2 NT	55 AB007866.2 NT	55 L54057.1	55 AL163267.2 NT	55 AL 163210.2 NT	55 N77281.1 FST HIMAN	5 AF119856.1 NT	11433045 NT	11433046 NT	11432004 NT	11432004 NT	5 AF224492 1 NT	TN	Į.	Ę		H	10567821 NT	BE379074.1 FST HIMAN		\neg	EST HUMAN	T	EST HOMAN	EST HIMAN	EST HUMAN	4.0E-56 AF141349.1 NT Homo sapiens beta-tubulin mRNA, complete cds
S		BE277861 1	BE277861 1	58031	AF00099(X13111.1	AB007866.2	AB007866.2	L54057.1	AL163267.2	AL163210.2	N77261.1	AF119856.1					4F224492 1	4F224492 1	4 163210 2	AL 163210 2	J50950.1	710045 1	1058782	E379074.1		119934.1	W361213.1	WV 301213.1	W015507 4	V28189.1	155099.1	F141349.1
	Most Similar (Top) Hit BLAST E Value	106.	1.06	1.0E-55	1.0E-55	1.0E-55	1.0E-55	1.0E-55	1.0E-55	1.0E-55	1.0E-55	1.0E-55	1.0E-55/	1.0E-55	1.0E-55	1.0E-55	1.0E-55	1.0E-55/	1.0E-55/	1.0E-55 /	1.0E-55.4	1.0E-55	1.05-55/1	1.0E-55	9.0E-56 B	100	7.05-50 7	7.05-30.7	7.0C-30.7	5.0E-58 A	5.0E-56 W	5.0E-56 H	4.0E-56 A
	Expression Signal	1.58	1.58	2.48	1.17	9.05	4.19	4.19	1.72	4.28	1.28	1.02	0.97	6.82	6.82	2	1.64	0.89	0.89	1.75	1.75	2.53	ro.	2.35	1.83	20	1 87	187	, c	0.86	1.81	2	8.58
	ORF SEQ ID NO:	27391		L	27799	27976	58008	28010	28071	29353	29635		30917	31929	31930	33712	33713	33799	33800	36751	36752	36423	36442	37482	33026	28182	33300	33310	27127	34906		30610	25469
	Exon SEQ (D NO:	14678	14678	15049		15237	15273	15273	15328	16719	17003	17416	18209	18955	18955	20583	20583	20875	20875	23511	23511	23192	23211	24168	19949	15444	20210	20210	14431	21748	22834	25359	12854
	Probe SEQ ID NO:	1943	1943	2324	2338	2521	2559	2559	2617	3970	4262	4682	5410	6178	6178	7888	7888	7980	7980	10829	10829	11425	11444	11569	7285	2737	7540	7840	1687	9059	10286	12220	58

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Single Exon Probes Expressed in Brain	Top Hit Descriptor	Horne company hotel tile ill.	Forth Septemble Determoutin michal, complete cds	Homo seniers tribular but an included a Homo seniers tribular but an included the homo seniers tribular but and the homo seniers tribular but	Homo sapiens tubulin, beta polynepide (TUBB) mRNA Homo sapiens tubulin, beta polynepida (TUBR) mBNA	Homo sapiens X-linked anhidrottic ectodernal dysplasia protein gene (EDA), exon 2 and flanking repeat regions	Wb09f08.x1 NCI_CGAP_GC6 Homo sapiens cDNA clone IMAGE:2305191 3' similar to SW:DCOR_MUSPA P27119 ORNITHINE DECARROXXA as E.	Wb06f08.x1 NCI_CGAP_GCR Home septens cDNA clone IMAGE:2305191 3' similar to SW:DCOR_MUSPA	Homo saplens Incharacterized homo management in Passon	Homo sablens uncharacterized bone marraine and places.	Homo sabiens lymphocyte-specific mater 4 (1 SPs)	the 5512 x1 NCI CGAP Rr25 Home series above 1.2 m of a constant of series and series of series and	m65012.x1 NCL CGAP Rno5 Home serions contact that a literature of the serions of	Homo sabiens hynothetical protein DRO4304 (DDO4304)	EST28889 Cerebaline II Home series and the Control of the Control	EST28889 Cerebellim II Homo capiens of NA Elections	Homo sarians MHC class 1 raving	Homo saplans Down sundrome condidate region	Homo saplens chromosome 21 segment HS21 Chas	Homo sapiens superkiller viralicidic activity 2 (S. cerevisiae homology, ilita (SEV) (2) V CENTA	Homo saplens sparc/osteonectin cwrv and kazal like damains	MKNA (SPOCK) mKNA	nomo sapiens sparc/osteonectin, cwcv and kazal-like domains proteoglycan (testican) (SPOCK) mRNA	Homo saplens lysosomal-associated membrane protein 2 (LAMP2), mRNA	nomo sapiens LIM binding domain 2 (LDB2) mRNA	Home septens Livin princing domain 2 (LDB2) mRNA	Homo septens contention to the Market of the	Homo seniens KIAA0317 nems product (KIA A 23.3)	Homo sapiens mRNA, similar to rat myomenalin, complete cits	Homo sapiens nuclear pore complex interacting protein (NPIP), mRNA
gle Exon Pro	Top Hit Database Source	TM	EST HIMAN	L	LN	Į.	EST HUMAN	EST HUMAN	LN	LN LN	TN	EST HUMAN	EST HUMAN	1.	T HUMAN	T	Т													
Sin	Top Hit Acession No.	Γ	Τ	4507728 NT	4.0E-56 4507728 NT		4.0E-56 Al632488.1	4.0E-56 AI632488 1						24029	Γ		Γ	57042	AL163268.2	5902085 NT	4759163 NT	TIM CONTRACTOR	4739100	11421124 N	4504970 NT	11448704 NT	D63479.2	434956	AB042556.1	5902013 NT
	Most Similar (Top) Hit BLAST E Value	4.0E-56	4.0E-56	4.0E-58	4.0E-56	4.0E-56	4.0E-56	, 4.0E-56	4.0E-56	4.0E-56	4.0E-56	4.0E-56	4.0E-56	3.0E-58	3.0E-56	3.0E-56	3.0E-56	3.0E-56		3.0E-56	3.0 E -56	3.05.58	20.00	3.0E-30	305-56	3.0E-56	3.0E-56	3.0E-56	3.0E-56	3.0E-56
	Expression Signal	8.58	2.69	7.28	7.28	3.49	1.48	1.48	6.01	6.01	2.02	8.88	8.88	4.17	1.54	1.54	1.61	1.43	4.27	2.34	2.12	242	102	25.7	1,15	4.68	0.85	1.38	1.71	6.37
	ORF SEQ ID NO:	25470			28158	25929	28074	28075	31912	31913	36266	36764	36765	26742	28527	28528		29728	29759	29902	31302	31303	32547	32981	32982	34550	35562	36240	36571	37239
	SEQ ID	12854			15419	13297	15331	15331		\perp		23523	- 1	- 1	- 1	- 1	- 1	17093	17127	17269	18393	18393	19519	19908	19908	21407	22364	23025	23333	23945
	Probe SEQ ID NO:	26	2173	2712	2712	2815	2836	2836	6164	6164	10403	10841	10841	339	3122	3122	3815	4355	왕	4534	5598	5598	6775	7223	7223	8715	9713	10379	10642	11284

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Table 4
Single Exon Probes Expressed in Brain

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Charles Expressed in Brain	Top Hit Descriptor	Homo capiene nirelege necessaries in the second of the sec	Home capies NACBCLE	Home senies NACP rapha-syndrien gene, exon 5	Home series constant a 2000 to 1000 to	Home employs caveail 3 (CAV3), mRNA	TATIO SEPTIMES CANSON S (CANS), MIKNA	PACEAUS.S. Surangene neuroepithelium (#937231) Homo sapiens cDNA done IMAGE:6452063	RC4 BT0310 140300 045 60 BT0310 Homo sapiens cDNA	Home emission = DNA 6 - VIA 6 4 4 4 4	AV773184 ADB U	Home conjugate SET 4	Manage force: 1	Macada lascicularis protein tyrosine phosphatase (PRL-1) mRNA, complete cds	ing 23 CTTXT INCL CIGAP_GCG Hamo saplens cDNA clone IMAGE:2946452 3/	INSCRITATION COMP. GCB Homo sapiens cDNA clone IMAGE:2946452 3'	4V-510//-130199-0/9 B1077 Homo saplens cDNA	Mus musculus cytoplasmic polyadenylation element binding protein (Opeb), mRNA	MR3-510203-180100-208-h02 ST0203 Homo sapiens cDNA	Homo sapiens chromosome 21 segment HS21C003	RC2-C10163-220999-001-E02 CT0163 Homo saplens cDNA	QV0-O 10033-070300-152-h03 OT0033 Homo sapiens cDNA	Homo sapiens EphA4 (EPHA4) mRNA	Homo sapiens EphA4 (EPHA4) mRNA	nomo sapiens serine protease 17 (KLK4) gene, complete cds	Home capiens serine protease 17 (KLK4) gene, complete cds	ONA STORA 4 84.00 000 for or of the complete cds	0.044-5 10.234-181199-037-105 S10234 Homo sapiens cDNA	xrdad10.x1 NCI_CGAP_Bm63 Homo septiens cDNA clone IMAGE:2759251 3' similar to gb:U05875 INTERFERON-GAMMA RECEPTOR RETA CHAIN POECI IDECE AND	2V51b12r1 Spares tests NHT Homosopions on M. Alexandra II.	Homo sapiens EnhA4 (EDHA4) mENA	Homo sablens EnhA4 /EDHA4) meNA	Homo sabiens distranate recentre fondamble AMDA 476014 22	Homo sapiens aconitase 2. mitochondrial (ACO2) mRNA	Homo saplens mRNA for KIAA0898 protein, partial cds	
gio Lyon File	Top Hit Database Source	FN	Į	FZ	ΙΝ	Į.	EST HIMAN	EST HIMAN	EST HIMAN	LN LN	EST HIMAN	L	IN	ENT LIBRARI	TOT LINAM	NOW TO LOS	NAME OF THE PERSON	I A	EST TOWAN	- N	ES! HUMAN	ES HUMAN	Ž	Z	FIX	-N	T LI INAANI	Т	EST HUMAN	EST HUMAN	1 12	L				
5	Top Hit Acessian No.	5902013 NT	56 U46900.1	56 U46900.1	11434876 NT	11434876 NT	56 AA199818 1	56 BE064386 1	BE064386 1	-56 AB037835.1	4V703184 1	-56 573003R NT	1.0E-56 AF190930 1			1 0E-58 Alons482 4	E-1000106.	žΙ			0.0E-30 AW043907.1	0100	1 N 8/28/14	0.0E-5/ 4/30Z/9	Т	9.0E-57 AR020981 1	Т	T	8.0E-57 AW 264599.1	8.0E-57 AA496109.1	58279	4758279 NT	4557630 NT	11418185 NT	AB020705.1	
	Most Similar (Top) Hit BLAST E Value	3.0E-56	3.0E-56	3.0E-56		3.0E-56	2.0E-58	2.0E-56	2.0E-56	2.0E-56	2.0E-56/	2.0E-56	1.0E-56	1.0F-561	1 0F-56 /	1 OF 58 /	100	1 OE-30	1 05 56	100-101	7 2 30 0	9.0E-37	9.05-37	0.00	9 0F-57 A	9 0E-57 A	8 OF-57 A	2	8.0E-57	8.0E-57 A	8.0E-57	8.0E-57	8.0E-57	8.0E-57		
	Expression	6.37	1.74	1.74	1.52	1.52	1.7	1.05	1.05	1.18	1.64	1.47	1.84	215	2.15	66 0	700	0.57	0 50	1 74	2 83	1 14	1 14	247	2.17	1.48	3.01		6.36	1.51	0.98	0.98	1.3	3.29	1.85	
	ORF SEQ ID NO:	37240		37591	31083			26141	28142		28934	32731		28056	29057	30303	30453	32589		35800		29548	29549	37134	37135	37420	25738		26303	27264	28791	28792	30205	30728	32083	
	Exon SEQ ID NO:	23945	24268	24268	24597	Ιi	13295	15550	15550	15753	16279	19683	13724	16417	16417	17696	17836	19558	22505	22596	13389	16920	16920	23848	23848	24107	13096		13633	14549	16135	16135	17582	25278	19078	
	Probe SEQ ID NO:	11284	11673	11673	12095	12095	511	718	718	2987	3523	0669	929	3664	3664	4972	5118	6724	9855	9948	611	4180	4180	11183	11183	11506	88		864	88	3376	3376	4852	5161	9306	
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Top Hit Descriptor	Homo saplens andiotensin I converting enzyme (neptidyl-dipeptidese A) 2 (ACE2), mBNA	801589896F1 NIH MGC 7 Homo saciens CDNA clone IMAGE 3044402 5	4246 Human retina cDNA randomly primed sublibrary Homo saniars cDNA	Homo sapiens hypothetical protein FL/11656 (FI J11658) mRNA	Homo sapiens hypothetical protein FL J11656 (FL J11656) mRNA	Homo sapiens KIAA0649 gene product (KIAA0649), mRNA	Human famesyl pyrophosphate synthetase mRNA complete cds	AU117659 HEMBA1 Homo saplens cDNA clone HEMBA1001910 5'	Homo saplens hypothetical protein FLJ11656 (FI J11656) mRNA	Homo saplens hypothetical protein FLJ11656 (FLJ11656) mRNA	2820473.5prime NIH MGC 7 Homo saplens cDNA clone IMAGE 2820473.5	2b45d11.1 Sogres fetal lung NbH 19W Homo seniens china IMACE: 308540 g.	RC0-HT0112-080999-001-C06 HT0112 Homo saniens cDNA	AJ003649 Selected chromosome 21 cDNA library Home series c DNA close MBIN40.414	Homo sapiens SNARE protein kinase SNAK mRNA, complete ods	Homo sapiens SNARE protein kinase SNAK mRNA complete cde	Homo saplens chromosome 21 segment HS21C004	MR0-BT0551-060300-103-b03 BT0551 Homo semiens cDNA	Homo sablens chromosome 21 segment HSQ1/D83	ze31c05.r1 Soeres retina N2b4HR Homo sepiens cDNA clone IMAGE:360584 5' similar to contains L1.t3 L1 repetitive element :	7n80004.x1 NCI_CGAP_Ov18 Home sapiens cDNA clone IMAGE:3570966 3' similar to contains TAR1 H	MER22 repetitive element ;	Homo sapiens small inducible cytokine subfamily A (Cvs-Cvs), member 22 (SCVA22), mRNA	Homo sapiens cell-line KG1 transcriptional regulatory protein p54 mRNA. complete cds	Homo sapiens 17-beta-hydroxysteroid dehydrogenase IV (HSD17B4) gene, exens, 3 and 4	Homo sapiens KIAA1065 protein (KIAA1065), mRNA	Homo sapiens KIAA1085 protein (KIAA1065) mRNA	Homo sapiens hypothetical protein FLJ20041 (FLJ20041), mRNA	Homo sapiens hypothetical protein FLJ20041 (FLJ20041), mRNA	ho32a08.x1 NCL CGAP_Lu24 Homo sepiens cDNA clone IMAGE:3039062.3' similar to TR:O00246 O00246 HYPOTHETICAL 9.3 KD PROTEIN	he33d06.x1 NCI_CGAP_Kid12 Homo sapiens cDNA clone IMAGE:2875499 3' similar to contains THR.b3 THR repetitive element :	
Top Hit Database Source	LN	EST HUMAN	EST HUMAN	LN L	NT	N	N	EST HUMAN	4	N	EST HUMAN	EST HUMAN	EST HUMAN	EST HUMAN	N	LN	Z	EST HUMAN	LN	EST HUMAN		EST_HUMAN	LN	LN	Ę	LN LN	LN.	N	LN LN	EST_HUMAN	EST HUMAN	
Top Hit Acession No.	11225608 NT	BE796537.1	W28130.1	11545798 NT	11545798 NT	11427757 NT	J05262.1	AU117659.1	11545798 NT	11545798 NT	AW248374.1	W23871.1	AW178575.1	AJ003649.1	AF246219.1	AF246219.1	AL163204.2	BE073264.1	AL163283.2	AA016131.1		BF115266.1	11431281 NT	AF045452.1	AF057722.1	11434330 NT	11434330 NT	11424084 NT	11424084 NT	BE043031.1	AW470791.1	
Most Similar (Top) Hit BLAST E Value	3.0E-57	3.0E-57	_	3.0E-57	3.0E-57	3.0E-57	7		3.0E-57	3.0E-57	_	3.0E-57		3.0E-57	2.0E-57				2.0E-57		_		2.0E-57			2.0E-57	2.0E-57	2.0E-57	2.0E-57	1.0E-57	1.0E-57	7
Expression Signal	1.24	3.23	3.77	2.16	2.18	0.7	0.73	4.17	1.03	1.03	.2.85	8.38	2.32	1.48	1.39	1.39	1.24	0.79	6.73	1.84		33.81	0.66	1.08	1.86	0.49	0.49	2.42	2.42	3.62	90.9	
ORF SEQ ID NO:	31680	31773	33871	33892	33893	34008				35048		30616		31010	26919			29301						34363	35602	36398	36399	37189	37190			
Exon SEQ ID NO:	18721		20738				1	l		21880	23508	25381		24928	14234	14234	16188	16660	17209	18379		18725	18846	21221	22397	23171	23171	23901	23901	21286	24696	
Probe SEQ ID NO:	5939	6033	8044	8070	8070	8179	8328	8757	9149	9149	10825	12101	12460	12623	1487	1487	3432	3910	4474	5582		5943	6067	8529	9746	10525	10525	11238	11238	8593	12249	

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Single Exon Probes Expressed in Brain	Exon ORF SEQ Expression (Top) Hit Top Hit Acession ID NO: Signal BLASTE No. Signal Value	19074 32060 0.95 5.0E-58 AI 163285.2 AUT	19148 32147 1.81 5.0E-58 41121220011T	19597 32635 0.68 5.0F-58 AFD51334 1 NIT	19597 32636 0.68 5.0E-50 AENE 33.4	19698 32752 0.72 6.0E.50 Arusi 534.1 NI	20564 33691 7 60 5 05 5 0 50000 NT	20945 34083 0.7 4.0E-50 AB0469374	21918 35089 0.68 5.0E-58 5231227NrT	21918 35090 0.68 5.0E-58 5.227 N.T	22408 35614 0.88 5.0E-58 11430847 NT	22671 35887 1.78 5.0E-58 AL163218.2 NT	22947 36161 0.83 5.0E-58 AB0145111 NT	22947 36162 0.83 5.0E-58 AB014511 NT	24405 37740 2.69 5.0E-58 11431079 NT	1.81 5.0E-58 11526293 NT	1.5 5.0E-58 11426423 NT	11418177 INT	4502502 NIT	4.0E-58 4504834 NT	4.0F-58	4.0E-58 136254 4 NT	1.03 4.0E-58 D16470 1 NIT	1.25 4.0E-58 5031801NT	4.0E-58 11424050 NT	2.57 3.0E-58/R17879 1 FST HI IMANI	26791 2.36 3.0E-58 4758981 NT	28585 2.78 3.0E-58 BF569848 1 FST HIMAN	28586 2.78 3.0E-58 BF5698481 FST HIMAN	31915 0.63 3.0E-58 BE0895091 FST HIMAN	32114 1.43 3.0E-58 F07056.1 EST HIMAN	32314 1.4 3.0E-58 AV712977.1 EST HUMAN	11.9 20E-58 A F 068624 1
				L	L	L				L						305	330	001		Ц		L	L			Ц							i
-	Probe ESEQ ID SEQ NO:	6301	6379 18		6680 18		L	L	ΙI				10300 22		_/	_ [12732 250	364 13	779 13	1452 14	2637 150		3723 164			.					[919 136

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						,	
Probe SEQ ID NO:	SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
1267	14016	-	10	2.05-58	BE2085321	FST HIMAN	ba08b07.y1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:2823733 5' similar to gb:X69391 60S RIBOSOMAL PROTEIN L6 (HUMAN); gb:X81987 M.musculus mRNA for TAX responsive element binding
5273	3 25065	30708		2.0E-58		EST HUMAN	601499861F1 NIH MGC ZA Homo conject and a latter of the contract of the contra
5273				2.0E-58	BE907186.1	EST HUMAN	60149961F1 NIH MGC 70 Homo saniens cDNA clone IMACE 3001911 5
5966	18748	31709	1.12	2.0E-58	BF513488.1	EST HUMAN	UI-H-BW 1-ams-0-11-0-UI-ST NCI CGAP Sub7 Home seniors - DNA class (NA CE 2022/020 A)
203	000	6					am57e02.x1 Johnston frontal cortex Homo sapiens cDNA clone IMAGE:1639674.3' similar to WP:2K328.1 CE05065 UBIQUITIN CONJUGATING ENZYME'; RECOVERIN SUBFAMILY OF EF-HAND CALCILIM
8082				2.05-58	AI124874.1	EST_HUMAN	BINDING PROTEIN;
700	1			Z.0E-58	R92567.1	EST_HUMAN	yq08h06.r1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:198379 5'
878	-				AI291407.1	EST HUMAN	qm84c01.x1 NCL_CGAP_Lu5 Homo saplens cDNA clone IMAGE:1895424 3'
7058	- 1				AF134838.1 .	N	Homo sapiens endocytic receptor Endo/80 (ENDO/80) mRNA complete cels
7056	┙			2.0E-58	AF134838.1	FN	Homo sapiens endocytic receptor Endot 80 (ENDO 180) met a complete od
10641			21.77	2.0E-58	BF307745.1	EST HUMAN	601890812F1 NIH MGC 17 Horne seniens cDNA close MACE 4444804 E
10885		36813	2.43	2.0E-58	AW872641.1	EST HUMAN	Im2508 x1 NC CGAP This Home capture of the result IMAGE 2242274 or
705	13480	26128	0.86	1.0E-58	M65134.1	NT	Human complement component C5 mRNA 2 and 1
1046	13805	26464	241	1.0E-58	F274549 NT	I L	Home cardane MADIL John John John John John John John John
1304	14053	26726	1.61		AW957182.1	EST HIMAN	FST360252 MACE recommend: MACE U.
1304	14053	26727	1.61			EST HUMAN	EST369252 MAGE resemiences, WACD Homo confirms CDNA
1376	_		1.13	1.0E-58 /		L	Homo sabiens partial AF-4 dana expres 2 to 7 and Attrement elements
2805		28251	2.37	1.0E-58	4759169 NT	F	Homo saplens stem remilators element blodge transcondant sectors and sectors are sectors a
2834			1.6	1.0E-58	5174444 NT	۲	Homo sepiens G protein-coupled recentar 604 (GPR604) mRNA
3526		28938	0.88	1.0E-58	4758081 NT	Į.	Homo septens chondrollin sulfate proteodivran 2 (versican) (CSPG2) mBNA
3526	. 1	28939	0.88	1.0E-58	4758081 NT	FZ	Homo sapiens chandrollin sulfate protecolivan 2 (versicen) (CSDC2) mBNA
4913		30256	4.75		Al141083.1	T HUMAN	oz43h01.x1 Soares NhHMPu S1 Homo sanians cDNA engles MAGE-14784.30 3'
6751		31465	1.31		BE061860.1	HUMAN	RC1-BT0254-290100-015-601 BT0254 Homo saplens cDnorth and saplens
6764	_[32533	0.8		2031		Homo saplens hypothetical probain (1 OC51260) mRNA
8013			0.5	1.0E-58	AW973537.1	EST HUMAN	EST385637 MAGE resequences. MAGM Home serviews.
8768	_]	34609	99.0	1.0E-58	4505314 NT		Homo sabiens mysmesin (M-cyclein) 2 (16540) (MAYCMA)
888		34714	16:0	1.0E-58 A	AV751001.1	EST HUMAN	AV751001 NPC Homo sapiens cDNA clone NPCACHIO 5'
8979	₋Ⅱ	34818	0.68	1.0E-58 A	AA412397.1	Г	ZB9705.F. Sogres testis NHT Home saniens CDNA class IMAGE-720407 El
8979		34819	0.66		AA412397.1	Γ	289905.r1 Sogres testis NHT Home saplens CDNA clane IMAGE 720407 5
10086	22734	35949	1.21	1.0E-58	32994		Homo sapiens discs, large (Drosophila) homolog 2 (chansum, 110) (DI (22) mBN A
							THE STATE OF COLORS AND A COLOR

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	- -	_	-				_		_										_					_		_		
Top Hit Descriptor	H.sapiens immunoclobulin kanna light chain variable ragion 114	Human MSH3 gene excent	Homo sapiens TATA box binding protein (TBP) mRNA	wh50d06.x1 NCI_CGAP_Kid11 Homo sepiens cDNA clone IMAGE-2384474 3	601458531F1 NIH_MGC_66 Homo saplens cDNA clone IMAGE:385086 5	cn06h02.y1 Normal Human Trabecular Bone Cells Homo sapiens cDNA clone NHTBC cn06h02 กาศคาก	au93h05.x1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE;2783865 3' similar to TR:075786 O75786 GANGLIOSIDE-INDUCED DIFFERENTIATION ASSOCIATED PROTEIN 1	aug3h05.x1 Schnelder fetal brain 00004 Homo sapiens cDNA clone IMAGE:2783865 3' similar to TR:075786 075786 GANGLIOSIDE:INDIUCED DIFFERENTIATION ASSOCIATED PROTEIN 4	W48c1.x1 Spares NFL T GBC S1 Homo sentiens cDNA clone IMAGE 2256828 2	H. sapiens DNA for ZNF80-linked ERV9 long terminal repeat	au68c07.xt Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2781228 3' similar to contains element TAR1 repositive element.	Homo saplens polymerase (RNA) III (DNA directed) (39kh) (RPC39) mPNA	AV762869 MDS Homo saplens cDNA clone MDSEIC12 51	Homo sapiens hypothetical protein (LOC57143) mRNA	Human mRNA for KIAA0184 gene, partial cds	Homo sapiens catenin (cadherin-associated protein), delta 2 (neural plakophilin-related arm-repeat protein) (CTNND2), mRNA	Homo eapiens 17-beta-hvdrovvsteroid dehvdrocenese IV (HSD17E4) nene monder radion and avve 4	EST377582 MAGE resequences, MAGI Homo seniens of NA	Homo sapiens KIAA0680 gene product (KIAA0680), mRNA	Homo sapiens plasminogen activator, tissue (PLATa) mRNA	Homo sapiens plasminogen activator, tissue (PLATa) mRNA	Homo sapiens mRNA for KIAA1112 protein, partial cds	Homo saplens mRNA for KIAA112 protein, partial cds	Homo sapiens A kinase (PRKA) anchor protein 1 (AKAP1), mRNA	Homo sapiens A kinase (PRKA) anchor protein 1 (AKAP1), mRNA	Homo saplens zona pellucida glycoprotein 2 (sperm receptor) (ZP2) mRNA	Homo sapiens chromosome 21 segment HS21C084	Homo saplens Testis-specific XK-related protein on Y (XKRY) mRNA
Top Hit Database Source	LN LN	N	N-	EST HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST HUMAN	EST HUMAN	IN	FST HIMAN	L	EST HUMAN	TN	N	IN	LN	EST HUMAN	1	N	LN	Ā	LN	Į,	N			
Top Hit Acession No.	X63392.1	1.0E-58 D61405.1	4507378 NT	AI761963	6.0E-59 BF035327.1	6.0E-59 AI750970.1	5.0E-59 AW157281.1	6.0E-59 AW167281.1	AI807484.1	5.0E-59 X83497.1	5.0E-59 AW162304 1	11421778 NT	5.0E-59 AV762869.1	11434908 NT	4.0E-59 D80006.1	11034810 NT	4.0E-59 AF057720.1		3.0E-59 7682247 NT	4505860 NT	4505860 NT	4B029035.1	4B029035.1	4502014 NT	4502014 NT	3.0E-59 4508044 NT	4L163284.2	4759329 NT
Most Similar (Top) Hit BLAST E Value	1.0E-58	1.0E-58	8.0E-59	8.0E-59	6.0E-59	6.0E-59	5.0E-59	6.0E-59	5.0E-59	5.0E-59	5.0E-59	5.0E-59	5.0E-59	5.0E-59	4.0E-59	4.0E-59	4.0E-59	3.0E-59	3.0E-59	3.0E-59	3.0E-59	3.0E-59	3.0E-59	3.0E-59	3.0E-59	3.0E-59	3.0E-59 /	3.0E-59
Expression Signal	2.11	1.57	29.49	2.49	1.74	0.61	1.32	1.32	86.9	6.55	7.5	1.04	1.62	3.78	1.56	1.03	1.91	6.13	4.58	8.2	8.2	5.59	5.59	3.77	3.77	1.45	0.98	0.92
ORF SEQ ID NO:		37739		33904		33970	27189	27190	28530	29978	30526		35443		26210	31138			25666	27147	27148	27585	27586	28534	28535	29189	30007	30107
Exon SEQ ID NO:	24371			20774	15536	20838	14490	14490	15889	17345	17968	21397	ı		13548	18249	25238	12836	13030	14448	14448	14856	14856	16891	15891	16557	17372	17470
Probe SEQ ID NO:	11780	11816	2225	8080	173	8144	1748	1748	3124	. 4610	6892	8705	9604	10823	776	5450	12203	6	219	1705	1705	2125	2125	3126	3126	3805	4638	4738

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Top Hit Descriptor	Homo sapiens protein tyrosine phosphalase, recentry than T/DTDDT/ mDN/	Human prohomone converting any mark (NEC2) gaps.	Homo saplens hypothetical protein PRO1741 (PRO1741) mBNA	Homo sablens nuclear recentur co-repressor (INCOPT), mixico	Human mRNA for dbl prote-phospene	Human mRNA for dbl prote-oncorene	H. saplens CKII-alpha gene	H. sapiens CKII-alpha gene	Homo sapiens gamma-glutamytransferase, like activity 1 (CCTI A1) mONA	MR0-FT0144-250700-002-a10 FT0144 Homo sanians cDNA	EST180633 Jurkat T-cells V Homo sablens cDNA 5' end	RC0-NT0038-100700-032-407 NT0038 Home september 500-NT0038-100700-032-407 NT0038 Home september 500-NT	fig7h04;x1 NIH MGC 17 Homo seniens cDNA clane IMAGE: postes at	fh07h04.x1 NIH MGC 17 Home sapiens cDNA clone IMAGE: 2064854 5	yr49h09.r1 Soares fetal live; spleen 1NFLS Homo saplens cDNA clone IMAGE:208673 5' similar to SP-POI FENV1 P31702 POI 1904 VDE 01751N.	wa36c12.x1 NCL CGAP_Kid11 Homo sepiens cDNA clone IMAGE:2300162.3' similar to TR:Q86542	Q80342 R1VL-H PROTEIN; contains LTR7.b1 LTR7 repetitive element;	Homo sapiens alpha-tubulin mRNA, complete cds	6011/6/5/F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3631927 5'	ye25c09.r1 Stratagene lung (#837210) Horno sapiens cDNA clone IMAGE:118768 5' similar to SP:S21348 S21348 HYPOTHETICAL PROTEIN 4 - :	Homo sapiens Xdha mRNA for xanthine dehydrogenase, complete cds	Homo sapiens Xdha mRNA for xanthine dehydrogenase, complete cds	oe56h11.s1 NCI_CGAP_GCB1 Homo saplens cDNA clone IMAGE:1309029 3' similar to TR:Q13537 Q13537 MER37 TRANSPOSABI F FI FMENT_COMPI FTE CONSENSI IS GEOLIENCE	Homo saplens mRNA for transcription factor	601111951F1 NIH MGC 16 Home septems clove IMAGE 2352502 F	801111951F1 NIH MGC 16 Homo sepiens cDNA clone IMAGE:355802 F	Homo saplens zinc finger protein 276 (ZNF275), mRNA	Homo sapiens 3-hydroxyisobutyryl-Coenzyme A hydrolase (HIBCH), mRNA	Homo sapiens 3-hydroxyisobutyryl-Coenzyme A hydrolase (HIBCH), mRNA	Homo sapiens mRNA for transcription factor	EST389849 MAGE resequences, MAGO Homo sapiens cDNA
Top Hit Database Source	N	Ν	₽	Ę	\ V	F	N	TN	F	EST HUMAN	EST HUMAN	EST HUMAN	EST HUMAN	EST HUMAN	EST HUMAN		ESI_HUMAN	N I I I I I I I I I I I I I I I I I I I	ESI HUMAN	EST_HUMAN	N	TN	EST HUMAN	N-	EST HUMAN	EST HUMAN	Į.	Į,	FN	TN	EST_HUMAN
Top Hit Acession No.	7427522 NT	3.0E-59 M95961.1	8924074 NT	5454137 NT	3.0E-59 X12556.1	3.0E-59 X12556.1	3.0E-59 X70251.1	X70251.1	11417866 NT	2.0E-59 BF373329.1	2.0E-59 AA309774.1	2.0E-59 BF365554.1				7 000,000	144645 4	DE 200444 4	DE 280411.1	T92522.1	D11456.2	D11456.2	AA748468.1	AJ130894.1	BE256814.1	BE256814.1	11419630 NT	11428849 NT	11428849 NT	AJ130894.1	AW977845.1
Most Similar (Top) Hit BLAST E Value	3.0E-59	3.0E-59	3.0E-59	3.0E-59	3.0E-59	3.0E-59	3.0E-59	3.0E-59	3.0E-59	2.0E-59	2.0E-59	2.0E-59	2.0E-59	2.0E-59	2.0E-59	000	2.05-39	4 OF 50 BE 308444	1.05-381	1.0E-59	1.0E-59	1.0E-59 [1.0E-59/	1.0E-59 /	1.0E-59 E	1.0E-59	1.0E-59	1.0E-59	1.0E-59	1.0E-59 /	8.0E-60
Expression Signal	1.57	26.0	2.12	1.94	1.16	1.16	0.87	0.87	6.04	17.0	6.32	1.19	2.6	2.6	1.31	8	7 85	20.0	9,00	0.93	1.19	1.19	2.47	1.08	0.97	26.0	0.86	0.54	. 0.54	12.88	0.85
ORF SEQ ID NO:	30143			33020				35795				_	36663	36664	37274	311.28	30710			26964	27870	27871		33227	33392	33393	35210	35337	35338	33227	26178
Ø	17520						22592	22592	24746	20357	22190	23071	23421	23421	23970	24505	25263	12974		14276	15133	15133	15335	20135	20283	20283	22039	22157	22157	20135	13520
Probe SEQ ID NO:	4789	4990	6126	7259	7832	7832	9944	9944	12327	7693	9537	10425	10734	10734	11311	12091	12805	159		1629	2412	2412	2623	7462	7617	7617	9285	9504	9504	10760	747

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				Γ	Γ													Γ	Γ	Γ	Ī	Γ	2	T _g		T	ains			_		JSE	Ţ	T	
Control of the second in Diali	Top Hit Descriptor	Homo sanjane emal numbara albamana and an analysis and an anal	Home servers differentiations of the servers of the	Home carbons different and the control of the control of the control of the carbon of the control of the contro	Home squeris unidestination-related gene 1 (nickel-specific induction protein) (RTP) mRNA	indire septens minna for KIAA1081 protein, partial cds	hyaluronan-binding protein=hepatocyte growth factor activator homolog in image protein=hepatocyte growth	Homo sapiens phosphate cytidylytransferase 1 choline hat inclosed individual, proximal, proximal, 2408 mj	Human mRNA for inferring alpha-2 subjusts	Homo saplens S-antiden refina and change days (CAO)	Homo sapiens KIAA0433 memering prima span (arresur) (SAC), mixing	Homo sabiens KIAA0433 profelo (KIAA0433)DNA	Homo sanjens RAN hindion popteja 7/BANDBO	Homo sapiens chromosome 21 segment HS24Coo.	Home carians abromate a significant and the si	Homo canions MHC class 4 and 12	Tomo conjugate MILIC class 1 region	Train saprens who crass 1 region	inding september in the september of the	nomo sapiens cullin 4A (CUL4A) mRNA, complete cds	ridino sapiens mitty for KIAA0581 protein, partial cds	Homo sapiens ornithine decarboxylase 1 (ODC1) mRNA	yr12f04.r1 Soares fetal liver spieen 1NFLS Homo sapiens cDNA clone IMAGE:205087 5' similar to contains LTR5 repetitive element	y12f04.r1 Soares fetal liver spleen 1NFLS Homo sepiens cDNA clone IMAGE:205087 5' similar to contains	LTR5 repetitive element;	601658751R1 NIH_MGC_69 Homo sapiens cDNA clone IMAGE:3886069 3'	yq78h09.r1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:201953 5' similar to contains	of Argentinal Control of the Control	WASSON A Source NET TOBO SALL	EST4408 I to Codies I NOTE I GEO. ST HOMO Saplens CLINA clone IMAGE:2359212 3	the second section of the second of the second seco	Q61085 GTP-RHO BINDING PROTEIN 1;	Homo saplens chromosome 21 segment HS21C078	Homo sapiens v-raf-1 murine leukemia viral oncogene homolog 1 (RAF1), mRNA	
OI LIOVE DIS	Top Hit Database Source	I-Z	LΝ	Ę	Į.		LN	۲	Z-														EST HUMAN		7	EST_HUMAN	EST HIMAN	Т	Т	Т	Т	HUMAN	IN.		
	Top Hit Acession No.	4759169 NT	5174656/NT	5174656 NT	ARnoonna 1		S83182.1	11420841 NT	X17033.1	11428949 NT	11417118 NT	11417118 NT	5453997 NT	AL163204.2	AL163204.2	AF055066.1	AF055066 1	4504634 NIT	A E077400 4	AR011153 1	4505.400	N 884CDC+	H58041.1			BE964974.2	H52456.1	-	Ī	Ţ		BF196068.1	AL163278.2	11433597 NT	
	Most Similar (Top) Hit BLAST E Value	8.0E-60	8.0E-60	8.0E-60			8.0E-60	8.0E-60		8.0E-60	8.0E-60	8.0E-60	8.0E-60	8.0E-60	8.0E-60	7.0E-60	7.0E-60		7.05.50	7 0F-60	7 05 80	, .ue-ue	7.0E-80			0.0E-00	6.0E-60	5.0E-60	5.0E-60 A	4.0E-60 A		4.0E-60 B	4.0E-60 A	4.0E-80	
	Expression Signal	2.65	3.6	3.6	1.12		1.07	1.07	2.28	2.6	96.0	96.0	0.59	6.36	6.36	3.61	17.82	86.0	7	153	2.58	2	4.02		4.00	90.	10.5	2.29	2.29	1.27		0.89	0.68	1.29	
	ORF SEQ ID NO:		27632	27633	31623		32778	33372	33687	34675	35118	35119	36348	36666	36667	26169	26169	28228	27584	28233	29527		35149	27934	07830	3		25545	25548			33012		37219	
	Exon SEQ ID NO:		14898	14898	18677	3	A/18	20264	20260	21529	21946	21946	23119	23423	23423	13511	13511	13568	14855	15493	16898		21974	24027	14008		21029	12908	12908	15738		19937	21714	23929	
	Probe SEQ ID NO:	1455	2169	2169	5892	3	3 2	960/	7865	8837	8371	9371	10473	10736	10736	737	738	798	2124	2788	4158		9307	11337	2477		8336	82	82	2972		7253	9024	11267	

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Table 4
Single Exon Probes Expressed in Brain

			_	_	<u> </u>		_																						
Single Exun Propes Expressed in Brain	Top Hit Descriptor	I have a considerate the second second	Angestation Hill 1900	CU 350440FT INIT MICC_44 Homo saplens cDNA clone IMAGE:3690395 5	OUTSSCRAPT NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3690395 5'	Home Seprens promibitin (PHB) mRNA	From Septems Ad pseudoautosomal region; segment 1/2	4.7 4-NN 1149-250-900-423-101 NN1149 Homo sepiens cDNA RC3-L T0023-200400-012-e041 T0023-11	ol60h11.y5 NCL CGAP_KH3 Homo saplens cDNA clone IMAGE:1534053 5' similar to SW:UDP_MOUSE.	Home carlana analina data data da	Homo sapiene prolling deliver of the control of the	ox56009 x1 Soares NHMMP. St Home sapiens cDNA clone IMAGE:1660337 3' similar to	HOW TO COME TO SHAMIN I	Figure Saprens Profine dehydrogenase (profine oxidase) (PRODH) mRNA	Home series COLVES 11 TO NOT 12 TO NOT SERIES CON CONTRACT 13930990 5'	Homo septiens CGL162	aboVhO4.r1 Stategere lung (337210) Homo sapiens CDNA clone IMAGE:840151 5' similar to contains	John Committee of the comment of the	Hearings At Vice Carrier (SLC25A18) mRNA, complete cds; nuclear gene for mitochondrial product	Human bor protein mRNA 5' end	device contract of the second	FCT30A44 MA CE	Home seriese word multi-	Homo sapiens chromosome 21 infrasin mBNA	nn01f12.y5 NCI_CGAP_Co9 Homo saplens CDNA clone IMAGE:1076495 5' similar to contains THR.H THR	special services and services are services and services and services and services and services and services are services and services are services and services and services are services are services and services are services are services are services and services are services a	Homo seriens DNA makes	Homo saniens controllerais alcadylic subunit (REV3) mRNA, complete cds	Homo saplens contropin releasing hormone receptor 2 (CRHR2) mRNA Homo saplens contropin releasing hormone receptor 2 (CRHR2) mRNA
igie Exon Pro	Top Hit Database Source	FN	HOT LINAM	NAME TO THE	NAMOR - PA		FOT LI IMANI	EST HUMAN	FOT LIMAN	NA - IN	L	TOT LINAN	NCAP L	EST HIMAN	-'		HUMAN	T			1	T HI IMAN	NI I			TINION TO			
5	Top Hit Acession No.	11433597 NT	BF5626	3.0F-60 RE562614 4	Ans 100 NT	A.127173	3.0E-60 BF365143 4	3.0E-60 AW836196.1	3.0E-60 A1792814 1	5174844	5174644 INT	3.0E-60 A1040235 1	5174644 NT	BF1026121	7120	11427120 NT	AA485286.1		Π		AY008285.1		7867	AF231919.1	A1791952 1			3044	4503044 NT
	Most Similar (Top) Hit BLAST E Value	4.0E-60	3.0E-60	3.0F-60	3.0E-60	3.0E-60	3.0E-60	3.0E-60	3.0E-60	3.0E-60	3.0E-60	3.0E-60	3.0E-60	3.0E-60	3.0E-60	3.0E-60				2.0E-60 A	2.0E-60	2.0E-60 A	20E-60	2.0E-60 A	2.0F-60 A	2.0E-60 A	2.0E-60 A	2.0E-60	2.0E-60
	Expression Signal	1.29	4.44	4.44	1.92	2. 2.	0.57	2.12	1	4.97	4.97	0.51	4.32	0.47	1.26	1.26	2.08	3.63	7.35	1.29	1.59	1.96	0.69	0.73	0.86	1.87	96:0	2.43	2.43
	ORF SEQ ID NO:	37220	27305					31260	30569		34133	34319	34477	35398	37107	37108		25474	26831	27155	27166	28160	28969	29285	31962	32168	32393	30583	30584
	Exan SEQ ID NO:			14590			18099	18351		20995	20995	21174	21333	22212	23829	23829	25297	12857	14151	14458	14467	15421	16321	16645	18983	19169	19378	17919	17919
	Probe SEQ ID NO:	11267	1852	1852	1862	4424	5294	5554	6856	8301	8301	8482	8641	9559	11162	11162	12686	8	1404	1715	1724	2714	3568	3895	6208	6400	6615	6750	6750

Page 327 of 536 Table 4 Single Exon Probes Expressed in Brain

	$\overline{}$	_	1	7	_	$\overline{}$	_	_	-	_	_	_	_	_	_		_	_	_	_	_	_			_		_	_	_	
Top Hit Descriptor	EST181949 Jurkat T-cells V Homo sabiens cDNA 5' end similar to similar to scatter and similar to scatter and	EST181949 Jurkat T-cells V Homo sapiens cDNA 5' end similar to similar to prothymasin plans	b23d09.x1 NCI_CGAP_Kid12 Homo sapiens cDNA clone IMAGE:2055185 3' similar to SW:GALR_RAT D62865 GAI ANIN RECEPTOR -	UI-H-BW 1-amu-0-02-0-UI st NCI CGAP Sub7 Home senions cDNA clare IMAGE 2022 246 2	HS15BEST human adult testis Homo saniens cDNA clone CAM FEXTAS	Human pre-B cell stimulating factor homologue (SDF1b) mRNA, complete cds	Homo sapiens sema domain, transmembrane domain (TM), and cytoplasmic domain, (semaphorin) 6A (SEMA6A), mRNA	Homo sapiens sema domain, transmembrane domain (TM), and cytoplasmic domain, (semaphorin) 6A (SEMA6A), mRNA	Homo sapiens ribosomal protein S8 kinase OnkO notimentitle & /PDS-8K/AE\ mBNA	602071973E1 NCI CGAP Ruft Homo saniers on NA close IMA CE 1/3/1/882 F	602071973F1 NCI CGAP Bm67 Homo saniens cDNA clone MARCE: 4314683 F7	Homo sapiens non-histone chromosome protein 2 (S. cerevislae). like 1 (NHP3) 1). mBNA	Homo saplens somatostatin receptor subtype 3 (SSTR3) nene 5 flanting radio and nartial color	Homo sapiens similar to HSPC022 protein (H. sapiens) (I. OCRSSOA). mRNA	Homo sapiens gene for AF-6, complete cds	PM3-HT0805-270200-001-e06 HT0605 Homo sapiens cDNA	AU143389 Y79AA1 Hamo sapiens cDNA done Y79AA1001854 5'	Homo sapiens chromosome 21 segment HS21C085	RC4-BT0311-141199-011-h06 BT0311 Homo sapiens cDNA	nc04et2.r1 NCI_CGAP_Pr1 Homo sepiens cDNA clone IMAGE:1007182 similar to contains L1.t1 L1	AV754081 TP Homo saplens cDNA clone TPGAEDors s	AU118344 HEMBA1 Homo saniens cDNA clona HEMBA1005583 F	105b10.x1 NG CGAP Co3 Home sablens cDNA clone IMAGE STREAMS	wt05b10.x1 NCI_CGAP_Co3 Home sapiens cDNA clone IMACF-0508555 3	Human endogenous retrovirus p.HE.1 (ERV9)	nn59g06.s1 NCI_CGAP_Lar1 Homo sapiens cDNA clone IMAGE:1088218 3'	Homo sapiens PXR2b protein (PXR2b), mRNA	Homo sapiens PXR2b protein (PXR2b), mRNA	Hamo sapiens PXR2b protein (PXR2b), mRNA	Hamo sapiens PXR2b protein (PXR2b), mRNA
Top Hit Database Source	EST HUMAN	Т	EST HUMAN	Т	Т	1				T HUMAN	Т		L		Ł	EST HUMAN	EST_HUMAN /	П	EST_HUMAN F	TOT HENANN	П	Т	Т	Γ		EST_HUMAN n				
Top Hit Acession No.	AA311159.1	AA311159.1	Al308124.1				11991659 NT	T1991659	11434729 NT	BF530674.1		18192	AF068757.1	8008	AB011399.1	BE178586.1	AU143389.1	AL163285.2	BE084410.1	4 2 2 4 4 0 4 1	T	AU119344.1	4W006478.1		X57147.1	4A583968.1	TN 058870 NT	7706670 NT	7706670 NT	7706670 NT
Most Similar (Top) Hit BLAST E Vatue	2.0E-60	2.0E-80	2.0E-60		2.0E-60	2.0E-60	2.0E-60	2.0E-60	2.0E-60	-			2.0E-60	2.0E-60	2.0E-60 /	1.0E-60	1.0E-60 /	-	1.0E-60		1.0E-80/		8.0E-61	_	8.0E-61		7.0E-61	7.0E-61	7.0E-61	7.0E-61
Expression Signal	2.73	2.73	0.59	0.79	28.0	3.01	2.29	2.29	1.53	1.8	1.8	3.02	1.93	2.34	1.77	1.13	1.18	1.2	0.91	3.48	1.41	2.21	1.16	1.16	1.53	1.05	1.97	1.97	2.38	2.38
ORF SEQ ID NO:	32757	32758	32880		33729	34608	35724	35725	36448	37732	37733					25925	29271	30245	33671		34517	26493	28126	28127		33614	25583	25584	25583	25584
Exen SEQ ID NO:	19702	19702	19812	20202	20599	21458	22528	22528	23216	24398	24398	24767	25228	24851	24862	13293	16632	17628	20543	21345	21373	13835	15385	15385	15717	20491	12941	12941	12941	12941
Probe SEQ ID NO:	7010	7010	7124	7532	7904	8766	9878	9878	11449	11809	11809	12364	12494	12496	12510	509	3882	4901	7848	8653	8681	1077	2676	2676	2951	7796	124	124	125	125

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Table 4
Single Exon Probes Expressed in Brain

		_	_	7	7	-	_	_	_	_	_	-		_	_	_		_				_									_	
onigie Exon Probes Expressed in Brain	Top Hit Descriptor	Homo sanjene DXR2h nredejn (DXR2h) se DMA	Home explains PMB9h profess (DMB9h DMP)	Ald alena May Or cook and	671300938E1 NIH MGC 24 Home control clotte in MAC 35253480 B	Homo saplens PRO2014 mRNA complete cleaning and complete cleaning and complete cleaning cleaning complete cleaning complete cleaning complete cleaning clean	601109238F1 NIH MGC 16 Homo sapiens cDNA close IMAGE:3356148 F1	Inn66h09.s1 NCI CGAP Lar1 Homo sapiens cDNA clone IMAGE-1088897.3	Homo saplens solute carrier (SI C25A18) mRNA complete carrier	AU130689 NT2RP3 Homo saniens CDNA chae NT38P3063 girls of milochondrial product	lig-beta/B29≕CD79b (alternatively sniliced) filiman B cells mBNA Bartial 375 mi	Human authornal deminant notweette kelpau diegen von 170 mil 1	Homo sapiens general transcription factor 2.1 (CTES) with American	Homo sabiens napsin A mRNA, complete ods	Homo sapiens napsin A mRNA complete ods	1801300938F1 NIH MGC 21 Homo sepilens CONA class (NACE: 389E480 F)	Home sanians T-call lumphons invested and activities of ATAMES.	Homo saplens profein phosphatase 1 regulatory cultural 40 (DDD-4040) — DNA	Homo sablens chromosome 21 segment HS24Cn70	Home carlane amilal bate (A.V.	Homo saniens 050 kh contra between AMI 4 and OBD4	Homo saplens T-cell lumphoma investor and make tacic 4 / T18M41, DN14	Homo saplens ATPase, Ca++ transporting, plasma membrane ((ATPAB1) mbNA	Homo saplens DKFZP566B023 protein (DKFZP568B023) mRNA	AV731140 HTF Homo sapiens cDNA clone HTFARB01 6'	AF150190 Human mRNA from cd34+ stem cells Huma sanisas cDNA class CBDAGBOA	EST14323 Testis tumor Homo sablens cDNA 5' end	EST14323 Testis tumor Homo saplens cDNA 5' end	Homo saplens hypothetical protein FL 111026 (F. 111028) mRNA	OV3-HT0513-060400-147-d01 HT0513 Homo sablens cDNA	QV3-HT0513-060400-147-401 HT0513 Homo saplens cDNA	yv53d11.s1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:246463 3' similar to gb:L25444 60S RIBOSOMAL PROTEIN L35A (HUMAN);
gie Exori Pio	Top Hit Database Source	Ł	±N	EST HIMAN	FST HIMAN	NT	EST HUMAN	EST HUMAN	Į.	EST HUMAN	NT.	Į	LN L	LN FN	IN	EST HUMAN	L	Į	LN	LN FIN	L	LN.	NT:	LZ L	EST HUMAN	EST HUMAN	EST HUMAN	EST HUMAN	12	EST HUMAN	Г	
<u> </u>	Top Hit Acession No.	7706670 NT	7708870 NT	6.0E-61 BE409310.1	6.0E-61 BE409310.1	31 AF119860.1	11 BE257400.1	6.0E-61 AA596033.1	6.0E-61 AY008285.1	6.0E-61 AU130689.1	6.0E-61 S79249.1		-		6.0E-61 AF090386.1	6.0E-61 BE409310.1	4507500 NT	4506008 NT	5.0E-61 AL163279.2	2,68	5.0E-61 AJ229041.1	0220	4502286 NT	7661637 NT	AV731140.1	AF150190.1			8922829 NT	BE168410.1	BE168410.1	N53039.1
	Most Similar (Top) Hit BLAST E Value	7.0E-61	7.0E-61	6.0E-61	6.0E-61	6.0E-61	6.0E-61	6.0E-61	6.0E-61	6.0E-61	6.0E-61	6.0E-61	6.0E-61	6.0E-61	6.0E-61	6.0E-61	5.0E-61	5.0E-61	5.0E-61	5.0E-61	5.0E-61	5.0E-61	5.0E-61	4.0E-61	4.0E-61	3.0E-61	3.0E-61	3.0E-61	2.0E-61		2.0E-61	
	Expression Signal	1.04	1.04	2.95	1.62	15	76.0	2.63	1.58	9.37	3.37	1.82	1.67	1.35	1.35	1.62	1.73	2.22	2.56	3.27	1.78	1.07	3.38	0.87	3.51	0.69	0.64	0.64	1.52	0.82	0.82	-
	ORF SEQ ID NO:	25583	25584	25705	L			27078	27583	28711	31682	£00££				26226	25789	27112	28444	28608		25789	30416	31438		34151	34427	34428	25906	26607	26608	27097
	Exon SEQ ID NO:	12941	12941			ı	14372	14389	14854	16063	18723	19927	20189	24075	24075	13565	13149	14419	15798	15956	16712	13149	17799	18517	24582	21013	21288	21288	13271	13942	13942	14406
	Probe SEQ ID NO:	5034	5034	259	793	1298	1626	1643	2123	3301	5941	7242	7518	11474	11474	12265	350	1674	3032	3193	3963	4941	5080	5725	12068	8320	8596	8596	486	1190	1190	1660

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onigie Exon Probes Expressed in Brain	Top Hit Descriptor	W03f11.11 Spares melanocule 2NkHM Home conjune 17814	Homo sapiens ATPass, H+ transporting, lysosomal (vacuolar proton pump) non-catalytic accessory protein	AVERAGE CKC LICENSES	Home series mBNA 6-17/AAA506	LI-HE-RNO-ska-6-12-0 THE MILL MCC EATH	Homo saplans polymerase (PNA / III / DNA 4:	Homo sapients the same asset (1447) III (DIVA directed) (39KL) (RPC39), mRNA	iai piùciii Lett (nr 144), minn A	Homo sapiens zona pelliicida aluennadain 24 (naces est company)-like (ORC2L) mRNA	xm11b09.y1 NCI_CGAP_LI5 Home sapiens cDNA clone IMAGE.2693369 5' similar to contains element	MONT rependive element;	Home contains VIA Account Amo Saplens CDNA clone IMAGE:3614667 5'	CONDUCTOR AND SON ATT OF LITERATE IN THE SECOND CONTRACT AND SON ATT OF LITERATE AND SON ATT OF LITERATE IN THE SECOND CONTRACT AND SON ATT OF LITERATE AND SON ATT OF LITERATE IN THE SECOND CONTRACT AND SON ATT OF LITERATE AND SON ATT OF LITE	CYTHOST HASTOLOT BUDY Homo sapiens cDNA	ndmo sapiens I KAP family member-associated NFKB activator (TANK) mRNA	Trulio Sapiens KAIF family member-associated NFKB activator (TANK) mRNA	UI-H-BWG 11 L BWG 11	Unin-tably Control Control Control Control Sub6 Homo sapiens cDNA clone IMAGE:2732871 3'	H serions combanisment of 100 min	Homo caniene KIA 40789 2000 2001-17/10 6000 2000 2000 2000 2000 2000 2000 20	Homo sapiens survival of motor neuron 1 telements (STAN). IDNA	Human P40 T-cell and mast cell arranth forbit characteristics in incidental control of the contr	Homo saplens SC35-Interacting protein 1 (SRRP129) PRNA	Homo sabiens hymothetical number El 120439 (El 120439)	Homo saplens hypothetical protein El (20128 (FL220128), mRNA	Homo sapiens growth hormone releasing hormone (GHRH) mRNA	Homo sapiens mannosidase, beta A, Iysosomal (WANBA) gene, and ubiquitin-conjugation enzume F2D 3	(UBE2D3) genes, complete cds	MR0-BN0070-040400-010-h01 BN0070 Homo sapiens cDNA	Homo sapiens cadherin 18 (CDH18), mRNA	Homo sapiens KIAA0971 protein (KIAA0971), mRNA	- Aven conjugar solition and the second seco
In the second s	Most Similar Top Hit Top Hit Acession BLAST E No.	1.04 2.0E-61 N39397.1	0.98 2.0E-61	2.0E-61 AV6943	20	37 2.0E-61 AW 500258 1	2.3 2.0E-61 11421778 NT	2.0E-61	1.0E-61	1.0E-61	1 0F-61 AW82728			1.0E-61 BE17445	, G	1010	1 0F-81 AW/2084	10.1	1.0	1.0E	1.0E-	1.0E-61	1.0E-81 M30135	Ц		1.0E-81	71 1		10.1	1.0E-61 AW999	1.0E-61	1.0E-61	
	SEQ ID ORF SEQ Expression NO: Signal	15357 1.	19102 32090 0		22012 0.9	22473 35676 1.67	36014	23482 1.81	13528 26188 1.11		14922 27656 1.42		28786	29106	17144 29773 0.81	29774		30158	30247	18114 30772 1.62	31310	31511	19461 32482 7.11	32732		1	20728 33861	20006	1		35110	35775	
	Probe Ex SEQ ID SEC NO:	2647 1								1851 14	2193 14				4407 17		ட	<u> </u>					6800 19			7091 197	- 1	200	П	L	_L	9928 22576	10531 237

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			2, complete cds					354725 3' similar to SW:POL_MLVRK		3 FACTOR 1) (UBF-1)		839150 3' similar to TR:015103				89251 3'	89251 3	ne IMAGE:3072833 5'		47204 3' similar to SW:GG95_HUMAN						32344 3' similar to SW:NRDC_RAT			55'	-
Single Exon Probes Expressed in Brain	Top Hit Descriptor	27 - 17 - 17 - 17 - 17 - 17 - 17 - 17 -	Described and the september of the company of the september of the septemb	Home septens mixiva for CSR2, complete cds	nound saprens low density lipoprotein-related protein 2 (LRP2), mRNA	Florno sapiens low density lipoprotein-related protein 2 (LRP2), mRNA	RC4-BT0310-110300-015-fto BT0310-Uses Control	coe66111.s1 NCI_CGAP_GCB1 Homo sapiens cDNA clone IMAGE:1354725 3' similar to SW:POL_MIVRK	AV714334 DCB Home semilars child alega DCBANASE El	NUCLEOLAR TRANSCRIPTION FACTOR 1 (UPSTREAM BINDING FACTOR 1) (UBF-1)	Homo senions hundholical material (F) 100001	organic Septembrilla protein (TLZ20201), mKNA 1958604-XI Soares, Lestis, NHT homo septems cDNA clone IMAGE:1839150 3' similar to TR:O15103	SIGNITION OF THE TANK OF THE T	Home series COI Fe and COI FOR	windens of the protein (CGI-50), many	wi04do2 x1 NCI CGAP CI 14 Home sapiens cDNA clone IMAGE:2389251 3	HE BD0n alka no 0.11 ra NIU Anon Earling	Homo saniens COL18 ardel- (1 October 1 Days 2 Days CONA clone IMAGE:3072833 5	MR3-ST0203-130100-025-909 ST0203 Home 202100	wx51e07.x1 NCI_CGAP_Lize Home septems cDNA clone IMAGE:2547204 3' similar to SW:GG95_HUMAN	Homo seniens Vancaridants dement MERZZ repetitive element	Home septems Xo need the contract of the contr	o aprais /4 pseudadiosomal region; segment 1/2	Himso venthine dehidenses (1988)	Homo saplens propoding recently 2 (DVDC)	ZW78e09.s1 Somes testis_NHT Home sapiens cDNA clone IMAGE:782344 3' similar to SW:NRDC_RAT		FIGURE SEPTICES I YANGE FECEPTOR 3 (RYR3) mRNA	Home series mind.	Homo sapiens muscle specific gene (M9), mRNA Homo sapiens muscle specific gene (M9), mRNA
gle Exon Probe	Top Hit Database Source						T HUMAN		EST HUMAN A	1		I I I I I	Ţ.		HIMAN		Т		T HUMAN		Т							T HIMAN	NICIAICI I	
Sing	Top Hit Acession No.	1.0E-61 AB044550 1	T	30460			9.0E-62 BE064386.1				11427965	7.0E-62 Al208681.1		418255			_	1139	AW814393.1	AI950528.1					4506758	AA431093 1 E	16758	AW410687 1 E	5574	11425574 NT
	Most Similar (Top) Hit BLAST E Value	1.0E-61	1.0E-61	1.0E-61	1.0F-61	10E-61	9.0E-62	8.0E-62	7.0E-62	7.0E-82 P17480	7.0E-62	7.0E-62	6.0E-62	6.0E-62	6.0E-62 AI762801.1	6.0E-62			6.0E-62	6.0E-62	5.0E-62/	5.0E-82/	5.0E-62	5.0E-62	5.0E-62	5.0E-62/4	5.0E-62	5.0E-62	5.0E-62	5.0E-62
	Expression Signal	1.49	1.53	3.02	3.02	11.56	1.45	- -	1.62	0.74	0.64	7.1	1.42	4.1	3.03	3.03	0.72	1.45	3.27	2.8	4.25	4.25	1.35	1.35	2.92	2.6	0.55	6.45	2.85	2.85
	ORF SEQ ID NO:	36780	36835			30988	36113	29885	26501	28907	31547	37317			33289	33290	,	33981	35106	25840	27863	27864	28048	28049	28820	29660	34278	35267	37180	37181
	Exon SEQ (D NO:						22903	17249	13843		18615	24014	15764	J	ł	ı	20679	20849	21933	13192	15127	15127	15312	15312	16171	17032	21139	22095	23894	23894
	Probe SEQ ID NO:	10855	11006	12007	12007	12659	10255	4514	1085	3497	5826	11323	2888	3379	7525	7525	7984	8155	9254	407	2406	2406	2598	2598	3413	4293	8447	9417	11231	11231

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Cirigio Explessed in Brain	Top Hit Descriptor	au71d03.y/ Schneider fetal brain 00004 Homo saplens cDNA clone IMAGE:2781701 5' similar to gb:M37104 ATP SYNTHASE COI IPI ING FACTODE A MITOCALONIA CONTRACTOR CONTRACTOR OF CONTRACTOR	au71d03 y/ Schneider fetal brain 00004 homo sapiens SDNA clone IMAGE:2781701 5' similar to gb:M37104 ATP SYNTHASE COLID ING FACTOR FOR SAME SAME STANDARD SYNTHASE COLID ING FACTOR FACTOR SAME SAME SAME SYNTHASE COLID ING FACTOR FACTOR SAME SAME SAME SAME SAME SAME SAME SAME	au/1403.y/ Schneider fetal brain 00004 Humo saplens SDNA 6009 [AUMAN]; ATP SYNTHASE COI IPI ING FACTOR & MITTO-LONDON CONTROL MATERIAL CONTROL OF STATUS COIL FOR STATUS CONTROL OF STATUS CONTR	au71d03.y/ Schneider fetal brain 00004 Homo sapiens cDNA done IMAGE;2781701 6' similer to gb::M37104 ATP SYNTHASE COUPI ING FACTOR & MITCHANDERING COUPI ING FACTOR & MITCHANDERING COUPI ING FACTOR & MITCHANDERING COUPI ING	W12b08.x1 Soares_NFL_TGBC_S1 Home septens cDNA clone IMAGE:2360369 3' similar to db.X57138 mat HISTONE H2R 2' 411 IMANN.	wf12b08.x1 Soares (SEC. S1 Homo saplens cDNA clone IMAGE:2350359 3' sImilar to	Box33130_Intal Filst ONE Fize.2 (HOWAN); Homo sanlens keretin 18 /KPT18\ mBN ∆	Homo sapiens solute carrier family 13 (sodium-dependent dicarboxylate transporter), member 2 (SLC13A2)	יייייייייייייייייייייייייייייייייייייי	Home sapients updution specific protease 9, X chromosome (Drosophila fat facets related) (USP9X), mRNA	Homo saniens entenetic feneralistics in the feneral control of the feneral control of the feneralistic feneralistics of the feneralisti	Homo saplens elikerustis translation littliation factor 25, subunit 2 (beta, 39kD) (EIF2B2), mRNA	Homo sepiens 26S probassome acceptable and 25 (2512), mRNA	Homo sepiens mRNA for KIAA1283 profess profess and control of the	H. sapiens flow-sorted chromosome & Hindlil framment 50s-14ens	H.sapiens flow-sorted chromosome 6 Hindlil frament SCS-A4603	Homo sapiens putative nuclear protein /HRIHEB2122)	Homo sapiens cadherin EGF LAG seven-pass G-hms recents 1 / CEI 5847 - Phys	Homo sapiens calcineurin kindina motela 4 (KLAAA220) (CELSKI), mKNA	Homo saplens calcineurin hinding profess 1 (KIAA0230), mRNA	Homo sablens low density linearate in related and in 27, 1770.	Homo sanlens neurofilecomia 2 /bildone and 10 / m MNA	Homo sanjans mRNA for KIAA4726	Homo saplens mRNA for KIAA1476 model: nontial color	Human cyclophilln-related processed pseudogene
שום באחוו הוס	Top Hit Database Source	EST HUMAN	EST HUMAN	EST HUMAN	EST HUMAN	EST HUMAN	MAN II FOR	4557887 NT	I.V			L	L _Z	 	N	N-	Ā	ト	ラ							
5	Top Hit Acession No.	4.0E-62 AW161479.1	4.0E-62 AW 161479.1	4.0E-62 AW161479.1	4.0E-62 AW161479.1	2 AI827900.1	AI827900 1	4557887	4506978 NT	11420R54 NIT	11421041 NT	7657057 NT	7657057 NT	11429973 NT	AB033089.1		Z78766.1	11418086 NT	11418322 NT	11417862 NT	11417862 NT	11430460 NT	4557794 NT	AB040909.1		П
	Most Similar (Top) Hit BLAST E Value	4.0E-62	4.0E-62	4.0E-62	4.0E-62	4.0E-62	4.0E-62	ति	4.0E-62	4.0E-62	4.0E-62	4.0E-62	4.0E-62	4.0E-62	4.0E-62 ₽	4.0E-62	4.0E-62 Z	4.0E-62	4.0E-62	4.0E-62	4.0E-62	4.0E-62	3.0E-62	3.0E-62 A		3.0E-62 X
	Expression Signal	1.95	1.95	2.96	2.96	1.78	1.78	6.34	1.84	0.	1.84	2.48	2.48	1.06	4.97	4.45	4.45	2.81	1.34	16.72	16.72	2.72	0.89	1.11	1.11	5.41
	ORF SEQ ID NO:	26258	26259	26258	26259	27916	27917		31555	31958	32826	33299	33300	33894	34584	36864	36865	37270	30984	30981	30982	30993	25535	28452	28453	29081
	Exon SEQ ID NO:	13591	13591	13591	13591	15177	15177	16153	18622	18979	19762	20204	20204	20765	21437	23614	23614	24533	24947	24942	24942	24976	12899	15807	15807	16439
	Probe SEQ ID NO:	820	820	821	821	2459	2459	3394	5833	6204	7071	7534	7534	8871	8745	10934	10934	11995	12590	12645	12645	12692	72	3041	3041	3686
																_	_	_	_	_	_	_	_	_	_	_

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The court is the coord in Digili	Top Hit Descriptor	wa33f04.x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2299903 3' similar to contains THR.t2 THR repetitive element	Homo sapiens chromosome 21 segment HS21Chp4	RC0-BN0284-300500-031-e05 BN0284 Homo saniens c DNA	RC0-BN0284-300500-031-e05 BN0284 Homo sapiens cDNA	Homo sapiens mannosidase, beta A, Iysosomal (MANBA) gene, and ubiquitin-conjugating enzyme E2D 3 (UBE2D3) genes, commists ords	0V4-BT0257-08/199-017-403 BT0257 Home conjune conjune	Homo sabiens intersectin 2 (SH3D18) mRNA complete cdc	Homo saplens ADP/ATP carrier protein (ANT.2) dene complete cds	af70e11.r1 Soares_NhHMPu_S1 Homo saplens cDNA clone IMAGE:1047404 5' similar to WP:K01H12.1	DE03433 ,	OWN HITMOGRAPH OF A LITERARY IN THE SEQUENCE OF THE SECOND	Homo caniens by notherinal profess in El 1909.97 (El 1909.97)	Triging separate process of the control of the cont	numan glucagon-like peptide-1 receptor (GLP-1) mRNA, complete cds	Homo sapiens X28 region near ALD locus containing dual specificity phosphatase 9 (DUSP9), ribosomal protein L18a (RPL18a), Ca2+/Calmodulln-dependent protein kinasa I (CAMKI) reating transporter (CDTB)	CDM protein (CDM), adrenoleukodystrophy protein >	ab05c02.s1 Stratagene fetal retina 937202 Homo sapiens cDNA clone IMAGE:839908 31	zg89f10.s1 Soares_fetal_heart_NbHH19W Homo sapiens cDNA clone IMAGE:409771.3*	2989110.s1 Soares_fetal_heart_NbHH19W Homo saplens cDNA clone IMAGE 409771.3	zs93e07.r1 NCI_CGAP_GCB1 Homo sapiens cDNA clone IMAGE:705060 5'	Homo sapiens KIAA0763 gene product (KIAA0763), mRNA	Homo sapiens KIAA0763 gene product (KIAA0763), mRNA	H.sapiens lysosomal acid phosphatase gene (FC 3 1 3 2) Fyrm g	H.sapiens Vsosomal acid phosphatase gane (EC 3.13.2) Even o	8833408.s1 NOI: CGAP GCB1 Homo sabiens cDNA clone IMAGE:815055.31	H.saplens flow-sorted chromosome 6 Hindill fragment SCBp44DR	Homo saplens exosome component Rm46 (I OC56015) mRNA	Homo sapiens cadherin EGFLAG seven-pass G-hope recentor 1 (CEI SR1) mRNA	Homo saplens low density lipoprotein-related protein 2 (I RP2) mRNA	QV4-ST0234-181199-037-05 ST0234 Homo saplens cDNA	C18159 Human placenta cDNA (TFujiwara) Homo sapiens cDNA clone GEN-558C10 5
מובי ביצמון	Top Hit Database Source	EST HUMAN	N	EST HUMAN	EST HUMAN	Į į	EST HUMAN	Į.	TN	HAMI H	EST HIMAN	EST HIMAN	LN TN	E	Z		NT	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	LN	N	N	NT	T HUMAN	Т				EST_HUMAN	EST_HUMAN
	Top Hit Acession No.	2 AI632733.1	2 AL 163284.2	2 BF329911.1	2.0E-62 BF329911.1	2.0E-62 AF224669.1	BF330676.1	AF248540.1	L78810.1	AA625207 1	AI 039044 1	BE166413 1	8923201 NT	22503 4	2000			AA490060.1			AA280050.1	7662289 NT	7662289 NT	X15533.1	X15533.1	AA465170.1	Z78698.1	11424055 NT	11418322 NT	11430460 NT	AW816405.1	C18159.1
	Most Similar (Top) Hit BLAST E Value	3.0E-62	2.0E-62	2.0E-62	2.0E-62	2.0E-62	2.0E-62	1.0E-62	1.0E-62	1.0F-82				1 OF 82				1.0E-62			1.0E-62	1.0E-62	1.0E-62	1.0E-62	1.0E-62)	1.0E-62	1.0E-62	1.0E-62	1.0E-62	1.0E-62	9.0E-63	9.0E-83(
	Expression Signal	5.82	2.36	4.89	4.89	3.8	4.81	1.87	11.01	1.04	66.0	0.71	1.57	0	3		0.86	0.91	2.94	2.94	0.5	2.13	2.13	2.02	2.02	3.54	2.01	1.52	2.25	2.99	2.59	1.53
	ORF SEQ ID NO:	34267	26627	34611	34512			26443	26970	27239	28328			30405			31948	32782	32796	32797	34491	34797	34798	34838	34839	35177	37333	37792		30890	25765	
	Exon SEQ (D NO:				21385	22720	24284	13781	14283	14531	15681	17056	17226	17790			18972	19726	19738	19736	21347	21647	21647	21689	21689	22007	24029	24450	24838	24966	13130	15068
	Probe SEQ ID NO:	8438	1209	8673	8673	10072	11689	1021	1536	1791	2915	4317	4490	5071			938	734	7045	7045	8855	88	8956	833	8999	9457	11339	11866	12474	12673	329	2345

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Table 4
Single Exon Probes Expressed in Brain

Single Exon Propes Expressed in Brain	Top Hit Descriptor	Homo saplens mRNA for KIAA0350 protein, partial cds	Homo sapiens mRNA for KIAA0350 protein, partial cds	Homo sapiens aconitase 2, mitochondrial (ACO2), mRNA	Homo saplens mRNA for PkB kinase	Homo saplens nucleoportn 88kD (NUP88), mRNA	Homo sapiens pyruvate dehydrogenase kinase, isoenzyme 3 (PDK3) mRNA	Homo sapiens Ras association (RaIGDS/AF-8) domain family 2 (RASSF2), mRNA	Homo saplens KIAA0763 gene product (KIAA0763), mRNA	Homo saplens KIAA0763 gene product (KIAA0763), mRNA	Homo sapiens monoamine oxidase A (MAOA), nuclear gene encoding mitochondrial protein, mRNA	Homo saplens IL 2-inducible T-cell kinase (ITK), mRNA	Gallus gallus Dach2 protein (Dach2) mRNA, complete cds	Gailus gallus Dach2 protein (Dach2) mRNA, complete cds	Hamo sapiens chramosome 21 segment HS21C068	wm55g11.x1, NCI_CGAP_Ut2 Homo sapiens cDNA clone IMAGE:2439908 3'	nc63f02.r1 NCI_CGAP_Pr1 Homo sapiens cDNA clone IMAGE:745947 similar to gb:Y00361 60S RIBOSOMAL PROTEIN (HUMAN);	Homo sapiens G protein-coupled receptor 51 (GPR51), mRNA	Hamo sapiens chromosome 21 segment HS21C078	Homo saplens mRNA for KIAA0707 protein, partial cds	Homo sapiens mRNA for KIAA0707 protein, partial ods	CM3-BT0595-190100-072-a09 BT0595 Homo sapiens cDNA	CM3-BT0595-190100-072-a09 BT0595 Homo sapiens cDNA	UI-H-BI1-abq-a-02-0-UI.s1 NCI_CGAP_Sub3 Homo sapiens cDNA clone IMAGE:2712482 3'	UI-H-BI1-abq-a-02-0-UI.s1 NCI_CGAP_Sub3 Homo sapiens cDNA clone IMAGE:2712482.3'	EST72607 Ovary II Homo saplens cDNA 5' end similar to similar to zinc finger protein family	Homo sepiens mRNA for KIAA0717 protein, partial cds	Human Met-tRNA-i gene 1	Hano sapiens zinc finger protein 144 (Mel-18) (ZNF144), mRNA	Homo saplens hepatocellular carcinoma antigen gene 520 (LOC63928), mRNA	601485656F1 NIH_MGC_69 Homo sapiens cDNA clone iMAGE:3888253 51	601485656F1 NIH_MGC_69 Hamo sapiens cDNA clone IMAGE:3888253 5'	Human DNA topoisomerase I mRNA, partial cds
lie Exon Prop	Top Hit Database Source	E	۲N		LΝ								LN	ĮN.	Į.	EST_HUMAN V	EST HUMAN		LN	IN	TN TN	EST_HUMAN (EST_HUMAN L			TN.			П	T_HUMAN	±
Sulc	Top Hit Acesslon No.	AB002348.2	AB002348.2	11418185 NT	Y15056.1	11426985 NT	4885544 NT	11421160 NT	7662289 NT	7662289 NT	4557734 NT	5031810 NT	AF198349.1	AF198349.1	AL163268.2	AI872137.1	AA420803.1	26464	AL163278.2		AB014607.1	AW 750372.1	-	AW134709.1		AA362834.1	0.1	J00310.1	F005963 NT	11545810 NT		3.1	U07804.1
	Most Similar (Top) Hit BLAST E Value	9.0E-63	9.0E-63	9.0E-63	9.0E-63	9.0E-63	9.0E-63	9.0E-63	9.0E-63	9.0E-63	8.0E-63	8.0E-63	8.0E-63	8.0E-63	8.0E-63	7.0E-63	6.0E-63	5.0E-63	4.0E-63	4.0E-63 /			4.0E-63	4.0E-63 /	4.0E-63 /	4.0E-63 A		3.0E-63	3.0E-63	3.0E-63			2.0E-63 L
	Expression Signal	7.42	7.42	3,05	1.63	3.86	0.91	1.38	2.03	2.03	1.32	2.06	3.02	3.02	3.31	2.09	48.05	1.97	0.84	1.16	1.16	3.64	3.64	. 2.3	2.3	4.32	2.82	2.26	11.81	32.78	1.15	1.15	1.09
-	ORF SEQ ID NO:	29395	29396	37798	30869	32837	33501	34055	36736	36737	27803	27834	28861	28862	29600			34612	28726	29174	29175	32115	32116	37021	37022	37771	27377	28225	26636	32150	35444	35445	25639
	Exan SEQ ID NO:	16766	16766	17895		19772	20387	20918	23499	23499	15066	15095	16210	16210	16975	13675	18061	21465	16075	16540	16540	19123	19123	23747	23747	24430	14664	15487	13967	19151	22258	22258	1,2999
	Probe SEQ ID NO:	4020	4020	5164	5379	7082	7724	8224	10816	10816	2343	2373	3454	3454	4234	808	5255	8773	3315	3788	3788	6353	6353	11077	11077	11846	1928	2782	2824	6382	9605	9605	186

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Olingia Chollessed III Brain	Most Similar Top Hit Acession (Top) Hit Acession (Top) Hit Acession Signal BLAST E No. Source	91 1.12 2.0E-63 AL163218.2 NT Homo sapiens chromosome 21 segment HS21C018	6.43 2.0E-63 N78945.1 EST HUMAN	2.96 2.0E-63 AF099810.1 NT	2.96 2.0E-63 AF099810.1 NT	5.97 2.0E-63 11418185 NT	1.28 1.0E-63 F08485.1 EST HUMAN	1.28 1.0E-63 F08485.1 EST_HUMAN	2.92 1.0E-63 F08485.1 EST HUMAN	2.92 1.0E-63 F08485.1 EST_HUMAN	0.8 1.0E-63 AJ271736.1 NT	1.4 1.0E-63 AW582266.1 EST HUMAN	0.68 1.0E-63 AW 451950.1 EST HUMAN	0.68 1.0E-63 AW 451950.1 EST	1.0E-83 AL163247.2 NT	AL163207.2 NT	4.36 9.0E-64 AI478186.1 EST HUMAN	6.16 8.0E-64 BE280796.1 EST HUMAN 601155232F1 NIH MGC 21 Homo sepiens cDNA clone IMAGE:3139058 5	3.88 8.0E-64 BE885755.1 EST HUMAN		T60651.1 EST_HUMAN	1.13 7.0E-84 BE394321.1 EST_HUMAN 601311455F1 NIH_MGC 44 Homo septens cDNA clone IMAGE:3633204 6	2.73 7.0E-64 4507490 NT	2.73 7.0E-64 4507490 NT	3.43 7.0E-64 Y07848.1 NT	wb51e07.x1 NCI_CGAP_GC6 Homo saplens cDNA clone IMAGE:2309220 3' similar to gb:M15182 BETA- GLUCURONIDASE PRECIESOR (HIMAN)	1.63 6.0F-64 A(85/002) 1 FST 11 IMAN	4.39 6.0E-64 AW026445 1 EST HIMAN	4.39 6.0E-64 AW026445.1 EST HUMAN	2.46 6.0E-64 Y18933.1 NT	2.46 6.0E-64 Y18933.1 NT	4.08 6.0E-64 M13975.1 NT
		1.12	6.43	2.96	2.96	5.97	1.28	1.28	2:92	2:92	0.8	1.4	0.68	0.68	2.68	4.04	4.36	6.18	3.88	7.34	1.6	1.13	2.73	2.73	3.43	1.63	1.63	4.39	4.39	2.46	2.46	4.08
	ORF SEQ ID NO:	35691		36604										32056			33586		31792						35779	27156	27157			31237		31261
	Exon SEQ ID NO:	22490		23363			14248							19071	21064				18829	24479					22581	14459	14459	1	15885	18332		18352
	Probe SEQ ID NO:	9839	10647	10672	10672	12098	1502	1502	4308	4308	5268	5683	6298	6298	8371	12737	7766	1024	6049	11916	11970	3520	4683	4683	8833	1716	1716	3120	3120	5534	5534	5555

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Single Exon Probes Expressed in Brain	Top Hit Acessian Top Hit Database Top Hit Descriptor Source	6912461 NT		11422189 NT	11525879 NT	11525879 NT	11420555 NT	F	-64 S78475.1 NT InfC fluman, brain, mRNA, 2715 nt	197 NT	11420197 NT	64 AW028445.1 EST HUMAN IW13e03.x1 NCI CGAP Bm23 Home seriens con a lone lata CE-2520426.2	EST HUMAN	26198 NT	Ā	ĻΝ	LN LN	۶		Ę	7662205 NT	7662205 NT	AF017433.1 NT	ĽΝ	4.0E-64 BE794607.1 EST HUMAN 601590382F1 NIH MGC 7 Homo sepiens CDNA celeme IMA CElemen MA CELemen	EST_HUMAN	3.1 EST_HUMAN	EST_HUMAN	.1 EST_HUMAN	EST HUMAN	HUMAN	NT	EST_HUMAN	П
gle Exon Pr		Ę	LZ	Į.	LΝ	ĽN.	N	N	F	ΙN	FN	EST HUMAN	EST HUMAN	LN LN	Ε	ΤZ	N F	Z	Ę	Σ	ΕN	Ę	N L	Z	EST HUMAN	EST HUMAN	ST_HUMAN	ST HUMAN	EST_HUMAN	SST HUMAN	ST. HUMAN	トフ	EST_HUMAN	F
Sir	Top Hit Acesslon No.	6912461	11422189	11422189	11525879	11525879	11420555	AF274753.1	376475.1	11420197	11420197	W026445.1	W026445.1	11526198	F231919.1	\F231919.1	B020710.1	40933.1	40933.1	189358.1	7662205	7662205	F017433.1				3.1	18895.1	E794381.1					
	Most Similar (Top) Hit BLAST E Value	6.0E-64	6.0E-64	6.0E-64	6.0E-64	6.0E-64	6.0E-64	6.0E-64	6.0E-64	6.0E-64	6.0E-64	6.0E-64	6.0E-64	6.0E-64	5.0E-64	5.0E-64	5.0E-64	5.0E-64 L40933.1	5.0E-64 L	5.0E-64 L	5.0E-64	5.0E-64	5.0E-64 A	5.0E-64 A	4.0E-64 B	4.0E-64	4.0E-64 A	3.0E-64 C18895.1	3.0E-64 B	3.0E-64 A	3.0E-64 A	3.0E-64 Z26273.1	3.0E-64 B	3.0E-64 A
	Expression Signal	1.26	0.62	0.62	2.34	2.34	6.76	2.09	2.78	6.01	6.01	1.84	1.84	4.97	2.85	2.85	1.84	1.3	1.3	1.37	4.85	4.85	6.71	1.05	0.58	2.23	2.23	5.41	0.89	2.22	2.22	1.21	3.34	1.93
	ORF SEQ ID NO:	31269	31453					35240	35458	36600	36601	28524	28525	31089	26235	26236	26738	26827	26828	27149	26897	26898	29328	29455	33493	36644	36645	27658	28862	28841	28842	31734	32169	34198
	Exon SEQ ID NO:	18361	18531					ı	22271	23360	23360	15885	15885	24608	13573	13573	14064	14148	14148	14449	14210	14210	16690	16828	20380	23404	23404	14924	16011	16192	16192	18771	19170	21058
	Probe SEQ ID NO:	5564	5739	5739	7136	7136	9226	9406	9618	10669	10669	10941	10941	12115	801	801	1316	1401	1401	1708	2829	2829	3940	4085	7716	10715	10715	2195	3249	3436	3436	2990	6401	8365

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Single Excit modes Expressed in Grain	Top Hit Descriptor	Homo saplens golgi matrix protein GM130 (GOLGA2) mRNA, complete cds	bb72h12.yi NIH MGC 12 Homo sapiens cDNA clone IMAGE:3047975 5' similar to gb:L08069 DNAJ PROTEIN HOMOLOG 2 (HUMAN);	bb/2h/2 y/ NIH_MGC_12 Homo sapiens cDNA cione IMAGE:3047975 5' similar to gb:L08069 DNAJ PROTEIN HOMOLOG 2 (HUMAN):	Homo sapiens chromosome 21 segment HS21C046	Homo sapiens chromosome 21 segment HS21C046	EST389493 MAGE reseguences, MAGO Homo sardens cDNA	EST389493 MAGE resequences, MAGO Homo sabiens cDNA	Homo sapiens chromosome 21 segment HS21C027	af09d08.s1 Soares_testts_NHT Homo saplens cDNA clone IMAGE:1031151 3'	Homo sapiens elF4E-like cap-binding protein (4EHP) mRNA	wo87b01.x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2462281 3' similar to contains element	Lingbeauve definent, Homo sepiens chromosome 21 segment HS21Ch48	Homo sablens chromosome 21 segment 1021/04/6	riomo sapiens giutamic-oxaloacetic transaminase 2, mitochondrial (aspartate aminotransferase 2) (GOT2), nuclear gene encoding mitochondrial protein. mRNA	EST370215 MAGE resequences, MAGE Homo sapiens cDNA	EST370215 MAGE resequences. MAGE Homo sapiens cDNA	AU124387 NT2RM2 Homo sabiens cDNA clone NT2RM2n02113 5	Homo sapiens angiopojetin 4 (ANG4) mRNA, partial cds	602123474F1 NIH_MGC 56 Homo saplens cDNA clone IMAGE:4280395 5'	oz29b03.x1 Soares_total_fetus_Nb2HF8_9w Homo sapiens cDNA clone IMAGF-1676717 3	H.sapiens dopamine receptor D5 pseudogene 1, partial cds	Homo sapiens ataxin 2-binding protein 1 (A2BP1), mRNA	QV1-HT0413-010200-059-h12 HT0413 Homo sapiens cDNA	Homo sapiens lymphocyte cytosolic protein 1 (L-plastin) (LCP1), mRNA	Homo sapiens lymphocyte cytosolic protein 1 (L-blastin) (LCP1), mRNA	Homo sapiens hypothetical protein SBBI67 (LOC57115), mRNA	AU132570 NT2RP4 Homo saplens cDNA clone NT2RP4000109 5'	EST04286 Fetal brain, Stratagene (cat#936206) Homo sapiens cDNA clone HFRDS88	EST04286 Fetal brain, Stratagene (cat#936206) Homo sapiens cDNA clone HFBDS88	602042882F1 NCI_CGAP_Bm67 Homo sapiens cDNA clone IMAGE:4180556 5
JIG EXOII PRODES	Top Hit Database Source	NT TN	BST_HUMAN PR		모	모	EST HUMAN ES	EST_HUMAN ES		EST_HUMAN afo			NT TOWNS	+		EST HUMAN ES	Т	EST HUMAN AU		Г	EST_HUMAN ozz	Г		EST_HUMAN OV				EST_HUMAN AU	EST HUMAN EST	Г	П
	Top Hit Acession No.	64 AF248953.1	-64 BE206521.1		E-64 AL 163246.2		-64 AW977384.1	-64 AW977384.1		П	4757701 NT	84 A1927030 1			4504068 NT		-64 AW958145.1			·			11431054 NT	64 AW606785.1 E	11434008 NT	11434008 NT	1.1423508 NT	64 AU132570.1 E	64 T06397.1 E		64 BF528114.1 E
	Most Similar (Top) Hit BLAST E Value	3.0E-64	3.0E-64	3.0E-64	3.0E-64	3.0E-64	3.0E-64	3.0E-64	3.0E-64	2.0E-64	2.0E-64	2 OF-84	2.0E-64	2.0E-64	2.0E-64	2.0E-64	2.0E-64	2.0E-84	2.0E-64	2.0E-64	2.0E-64	2.0E-64	2.0E-64	2.0E-64 /	2.0E-64	2.0E-64	2.0E-64	2.0E-64	2.0E-64		2.0E-64
	Expression Signal	1.93	3.69	3.69	1.54	1.54	9.0	9.0	1.8	1.64	1.54	1.82	2.05	2.05	1.42	0.78	0.78	2.78	1.47	5.21	1.16	4.54	0.7	0.65	0.73	0.73	0.56	26.0	0.59	0.59	3.72
	ORF SEQ ID NO:	34199	34220	34221	35165	35166	35263	35264	37608	26484	26799		27987	27988	28546	29157	29158	31655	31895	32164	32264	32378	33484	33510	34395	34396	34882	34984	35726	35727	36592
	Exon SEQ ID NO:	21058	21086		21994	21994	22092	22092	24286	13824	14125	15244	15248	15248	15901	16519	16519	18701	18925	19163	19263	19364	20371	20395	21259	21259	21728	21818	22529	22629	23353
	Probe SEQ ID NO:	8365	8393	8393	9327	9327	9414	9414	11691	1066	1377	2528	2533	2533	3137	3767	3767	5916	6148	834	6497	98	7707	7732	8567	8567	888	9130	9879	9879	10862

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Single Exon Probes Expressed in Brain	Top Hit Descriptor	wn81b06.x1 NCI_CGAP_Ut1 Homo sapiens cDNA clone IMAGE:2452211 3'	wn81b06.x1 NCI_CGAP_Ut1 Home sapiens cDNA clone IMAGE:2452211 3'	PM2-SN0018-220300-002-e12 SN0018 Homo sapiens cDNA	Homo sapiens period (Drosophila) homolog 3 (PER3), mRNA	CHR220101 Chromosome 22 exan Homo sapiens cDNA clone C22_132 5'	Homo sapiens chromosome 21 unknown mRNA	au60c01.xf Schnelder fetal brain 00004 Homo sapiens cDNA clone IMAGE:2519136 3' similar to gb:1.21698_cds1 PROTHYMOSIN ALPHA (HUMAN);contains element MSR1 repetitive element;	Homo sapiens synaptojanin 1 (SYNJ1), mRNA	Homo saplens transcription factor IGHIM enhancer 3, JM11 protein, JM4 protein, JM5 protein, T54 protein, IM40 protein, JM4 protein, JM5 protein, T54 protein, JM5	om it protein, At uniterantation dependent protein, urpre Linviolatini proteinio, end synaptophysin genes, complete cds; and L-type calcium channel a>	Homo sapiens TRIAD3 mRNA, partial cds	Homo sapiens TRIAD3 mRNA, partial cds	Homo sapiens hypothetical protein FLJ11026 (FLJ11026), mRNA	zk53f08.s1 Soares_pregnant_uterus_NbHPU Homo saplens cDNA clone IMAGE:486567 3'	Homo sapiens chromosome 21 segment HS21C046	H.sapiens DNA for endogenous retroviral like element	H.sapiens DNA for endogenous retroviral like element	QV4-BT0257-081199-017-e03 BT0257 Homo sapiens cDNA	au58h07.x1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:25190053' similar to SW:RL21 HUMAN P46778 60S RIBOSOMAL PROTEIN L21.	QV2-BT0635-240400-162-c02 BT0635 Homo saplens cDNA	HSAAAEAWO TEST1, Human adult Testis tissue Homo sapiens cDNA clone cam test346 (b)	AV721898 HTB Homo sapiens cDNA clone HTBBZC06 5'	nj86d10.s1 NCI_CGAP_Pr11 Homo sapiens cDNA clone IMAGE:999379 similar to gb:K03002 60S RIBOSOMAL PROTEIN L32 (HUMAN);	nh37b07.s1 NCI_CGAP_Pr5 Homo sapiens cDNA clone IMAGE:954517	xe07b09.x1 NCI_CGAP_Co21 Homo sapiens cDNA clone IMAGE:2583545 3' similar to TR:Q63306 Q63306 LONG INTERSPERSED REPETITIVE DNA CONTAINING 7 ORF'S. contains L1.b2 L1 repetitive element:	zw53b06.s1 Soares_total_fetus_Nb2HF8_9w Homo sapiens cDNA clone IMAGE:773747 3'	zw53b06.s1 Soares_total_fetus_Nb2HF8_9w Homo sapiens cDNA clone IMAGE:773747 3'	qf18h05.x1 NCI_CGAP_Brn25 Homo sapiens cDNA clone IMAGE:1750425 3'
ile Exon Probe	Top Hit Database Source	EST_HUMAN w	EST_HUMAN w	EST_HUMAN P	Į.	EST_HUMAN C	F		4507334 NT	工 -	LN LN	T LN	Ξ		EST_HUMAN z	H	H		EST_HUMAN C	EST HUMAN S	Г	EST_HUMAN H	EST_HUMAN A	EST HUMAN R	П	EST HUMAN L	EST_HUMAN z		EST_HUMAN q
NIN NIN	Top Hit Acession No.	AI922911.1	AI922911.1	AW864773.1	8567387	H55162.1	AF231919.1	A1929419.1	4507334		AF196779.1	Γ	AF228527.1	8922829 NT		.2	X89211.1		BF330676.1	AI929244.1		221378.1	AV721898.1	AA550929.1	AA503892.1	AW083252.1	AA427878.1		AI085314.1
	Most Similar (Top) Hit BLAST E Value	2.0E-64	2.0E-64	2.0E-64	2.0E-64	2.0E-64	1.0E-64	1.0E-64	1.0E-64		1.0E-64	1.0E-64	1.0E-64	1.0E-64		1.0E-64	9.0E-65	9.0E-65		8.0E-65	7.0E-65		6.0E-85	6.0E-65		6.0E-65	6.0E-65	6.0E-65 /	6.0E-65/
	Expression Signal	5.97	5.97	1.76	1.55	4.85	2.94	10.45	0.79		5.74	1.27	1.27	0.79	1.07	1.81	1.53	1.53	10.43	10.87	2.01	1.27	3.59	4.73	0.62	2.3	3.46	3.46	0.81
- - -	ORF SEQ ID NO:		36910	37149	31114		25698		28426		28912	28974	28975	29270			27738	27739		37405	35921	37731	26454		32242	34481	34742	34743	34814
	Exan SEQ ID NO:	23656		23863	24562		13060	14514	15776		16257	16327	16327			1			24123	24094	22703	24397	13794	14652	19242	21337	21600		21663
	Probe SEQ ID NO:	10981	10981	11198	12039	12468	251	1772	3010		3501	3572	3572	3881	9964	12012	2274	2274	11523	11493	10055	11807	1034	1915	6475	8645	8909	8909	8973

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Table 4
Exercesed in Br

11869 24515 3.65 2.0E-65 AA307904.1 EST HUMAN retrovirus 12431 25156 2.2 2.0E-65 BF246086.1 EST HUMAN 601854033F1 NIH_MGC_57 Homo saplens cDNA clone IMAGE:4073769 57 89 12915 1.0E-65 BF125544.1 EST HUMAN 601763488F1 NIH_MGC_20 Homo saplens cDNA clone IMAGE:4028501 57 526 13310 25943 1.44 1.0E-65 AB040946.1 NT Homo saplens putative Rab5 GDP/GTP exchange factor homologue (RABEX5), mRNA 2033 14768 27499 1.29 1.0E-65 AB040946.1 NT Homo saplens putative Rab5 GDP/GTP exchange factor homologue (RABEX5), mRNA 3366 16724 28781 0.81 1.0E-65 BE46881.1 EST_HUMAN homo saplens glypican 4 (GPC4) mRNA 3980 16728 28362 2.47 1.0E-65 A504092 NT Homo saplens glypican 4 (GPC4) mRNA 4183 16922 29551 2.01 1.0E-65 AW029340.1 EST HUMAN Wx09c09x1 NCI CGAP_GS4 Homo saplens cDNA done IMAGE:2543152.3'
2.04 1.0E-85 AW820481.1 EST_HUMAN 2.04 1.0E-85 AW820481.1 EST_HUMAN
20846 33978 2.04 1.0E-85 AW820481.1 EST HUMAN

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	Top Hit Descriptor	21 Homo sapiens cDNA clone IMAGE:3841012 6	601566124F1 NIH MGC 21 Home sapiens CDNA clone THYRO1000356 5	AU141295 THYRO I Form Saplens cDNA clone THYRO1000330 5	AU141259	AU129040 NT2RP2 Homo sapiens con Alame NT2RP2004714 5	AU129040 NT2RP2 Homo saprens Company type 1 (ITPR1), mixing	Homo saplens inosital 1,4,0-up/moduci (KIAA0656), mRNA Homo saplen	Homo sapielis N. M.		- 1			\top	Homo saplens 1000000000000000000000000000000000000	Г	1		Homo sapiens cadherin EGF LAG seven-pass G-type received 1.1 Homo sapiens cadherin EGF LAG seven-pass GULTX3), mRNA	Homo sapiens sulfotransferase-leader P.	Novel human gene mapping to chomosome 22	Novel human gent integration associated pad1 homology (1971) mRNA	Homo seplens 205 processome associated pad1 homolog (1011)	Homo sapiens 2.	Human transposed NHHMPu S1 Homo sapiens count of the coun		T		MAN CETOWOOT NOT COAP Lu19 Homo sapiens COAP	1	
i lox	Too Hit		HUMAN	1 1	EST HUMAN	EST HUMAN	EST HUMON	ESI NOIMON	15		EST HUMAN	EST HUMAN	EST HUMAIN	2 2	12	EST HUMAN		LEST HUMAN	LN L	ZNT	IN PARTY		1.1 F031980 NT	TN 080120	12	EST_HUMAN	EST HUMAN	-	EST HUMAN	FST HUMAN	
Single Exoll 1		it Acession No.	18.1	118.1	295.1	707.1		100	788227 NT					1	6167.1 6167.1	450000	698707.1	, ,	521017.1 11418041 NT	11418322INT	11418248 NI	9.0E-66 AL 160311.1	9.0E-66 AL 160311.1	9000		M87299.1	PATE 064410 1	BENGTIN	1,1024653.1		A1924653.1
	-	78 H	1.0E-85 BE7321	1.0E-65 BE7321	1.0E-85 AU141	1 0F-65 BF698707.1	1 0F-65 AU129040.1	1.0E-65 AU129040.1	1.0E-65	1.0E-65		1.0E-65 AIT91710.1	1 0F-65 AA069559.1	1.0E-65 AB037832.1	1.0E-65 M26167.1	1.0E-65	1.0E-65 BF698707.1		1.0E-85 AI621017.1	0F-65	1.06-65	9.0E-66	9.0E-66	9.0E-86	9.0E-66	9.0E-66	8.0E-00	7.0E-66	L	8.0E	6.0E-66
		Most Similar (Top) Hit BLAST E Value				1	1	2.82						10.0	L			L	- 1	1	1.97	150 7	1.31	1.88	188	5.51	0.77	2.99		1.16	1.15
		Expression Signal	93.0							24948		35124		36064	36346	36477	36810	1	37122	Ц	31086	1	25531	7,2007	26/30	2675/	00000	2000	1	29698	66962
		ORF SEQ ID NO:		34006			_	34752	1	١				Ц				23745		1		24867	12897	12897	14081	14081	14214	17376	24010	17071	72027
			Ö Z	1 1	20872	L	1_	1_	Ш		7 21697	24052	┸	1_	23116	10546 23242	Ш	11075 237	<u></u>	1	12013	L	Ш	1 69	L	Ц	1467	4642	11319	4332	1
		Probe SEQ ID	ö	8178	8178	8218	8210	8918	8918	8929	9007		937	1020	10470	1	100	٢		<u>- [</u>	-	ľ	1	1	1	1_	L	_		L	1

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	Top Hit Descriptor	wn57h07.x1 NCI_CGAP_Lu19 Homo sapiens cDNA clone IMAGE:2449397 3 striller to vr 1505.75 CE18595;	MAZ-H USU4-USUSUG-USUS H SOCH ISOCH SOCH ISOCH ISO	H. Sapiens microry for those in the process of the part of the par	RC4-B10311-141 189-311-100 B100111 1888 CONA clone IMAGE:3951791 5	60166139271 NILL MCC 9 Home septens CDNA clone IMAGE:3951791 5	Homo capiens thurid hormone receptor binding protein (AIB3), mRNA	Nice miscelles france X mental retardation syndrome 1 homolog (Fmr1), mRNA	Miles Illus Galacia Angle A moral and a septens CDNA	RCT-HINDOGS-100000-022-032-1445000 10000 CFT-100000 TANIA CATAGORDING FOR PROPERTY FOR PROPERTY CATAGORDING FOR PROPERTY	n.septens criving and account of leaner for the control of the con	Homo sapiens germ-ine Luxa huse early according to early according to the control of the control	Human endogenous retrovirus, complete gertorine	Homo saplens methylene tetrahydrotolate denydrogeniase (NAC) tucken word, incursor, methylene tetrahydrotolate	OVA-DITOREG-110200-067-410 DT0069 Homo saplens cDNA	4777 CASAN MADE researchers WAGI Homo satisfants CDNA		Homo sapiens cAMP-regulated guanine nuclectide exchange factor I (cAMP-GEFI) mRNA, complete cds	Homo sapiens methylene tetrahydrofolate dehydrogenase (NAD+ dependent), methenyltetrahydrofolate	cyclohydrolase (MTHFD2), mRNA	Homo sapiens hypothetical protein FLJ20116 (FLJ20116), mixed	Human endogenous retrovirus pHE.1 (ERV9)	UI-H-BW 1-amr-a-10-0-UIST NCI_CGAP_ Sub/ runilu sapiena cura societies	Homo sapiens mKNA for NIAAUsso protein, partier odening nucleotide translocator), member 5	Homo sapiens solute carrier family 29 (miliodioridina carrier, audilino ricoccordio) (SLC25A5), nuclear gene encoding mitochondrial protein, mRNA	Homo saplens solute carrier family 25 (mitochondrial carrier, adenine nucleotide translocator), member 3	(SLC25A5), nuclear gene encoding mitochondrial protein, mRNA	VZZ7812.r1 Soares_multiple_sclerosis_ZNBHMSP Homo saparits clurk clark clark invocation of the control of the c	SW: H261 1160A 13300011101 Criterian Property Control of State of	SW: H2B1_TIGCA P35068 HISTONE H2B.1/H2B.2. [2] PIR:B56612;
Siligie Exert Tobas Exp	Top Hit Database Source		THOMAN	Т	П	Т	HOMAN			HUMAN		NT	LN.		11	EST TOWN	EST_HUMAN	5		L	L	NT	EST_HUMAN	N	Ę		FA.		EST HUMAN	EST_HUMAN
igno.	Top Hit Acession No.		7.				BE898644.1	1142055/I	9816	38.1		AJ223364.1	9635487 NT		8643		AW965473.1	70460 4	0/8109.1	11428643 NT	11421638 NT	X57147.1	BF507493.1	AB023215.1	TN 80000A	207024	4502098 NT		N55323.1	N55323.1
	Most Similar (Top) Hit BLAST E Value	6.0E-66 A			=			5.0E-66				4.0E-66	4.0E-68		4.0E-66	4.0E-66	4.0E-66/		4.0E-00	4 0F-66	4.0E-66	4.0E-66	4.0E-66	4.0E-68		3.UE-00	3.0E-66		3.0E-66	3.0E-66
	Expression Signal	1.15	0.48	3.14	1.45	0.74	0.74	1	86.0	1.14	1.83	3.02	10.89		3.73		4.83		7.93	27.0						10.80	10.98		1.16	1.16
	ORF SEQ ID NO:	29700		37052		30382		35028							31153	31366			32779	2446						26835	26836		1 27429	1 27430
	Exon SEQ ID NO:	17071	21026	23778	14094	17765	17765	21864	13545	14471	l	1.		<u> </u>	18262	18452	_	L	19723		10202	\perp	1	1.	1_	14154	44454	1	14711	14711
	Probe SEQ ID NO:	4332	8333	11108	1346	5046	5046	9194	733	1729	2278	7477	1722	3	5463	5657	6757		7031		RZC/	18/0	1055	11351	2	1407		140/	1975	1975

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		_			_				_								_												
Top Hit Descriptor	y27g12.r1 Spares_multiple_sclerosis_2NbHMSP Homo sapiens cDNA clone IMAGE:284326 6' similar to SW:H281 TIGCA P35668 HISTONE H28 11H2B 2 131 ppp. BE6843	Homo sapiens TGF(beta-induced transcription factor 2 /TGIE2) mBNA	Homo sablens KIAA0649 dena product (KIAA0640) mDNA	Homo sapiens mRNA for KIAA0892 prohein partial che	Homo sapiens protein kinase C beta-II tone (PRKCR1) mRNA complete cuts	Homo sapiens NIPSNAP, C. elegans, homolog 1 (NIPSNAP4), mRNA	Homo sapiens NIPSNAP, C. elegans, homolog 1 (NIPSNAP1), mRNA	Homo sapiens mRNA for F_100045 protein partial cds	Homo sapiens KIAA0433 protein (KIAA0433) mRNA	Homo sapiens protocadherin beta 1 (PCDH-beta1) mRNA	Homo sapiens molybdenum cofactor biosysthesis protein E (MOBDE) mBNA complete	Homo saplens protein phosphatase 2, requiatory subunit B (RES) sinha isoform (DDDDDEA) mona	Homo sepiens calcium channel alpha1E subunit (CACNA1E) gene, exons 7-49, and partial cds, alternatively spliced	Homo sablens Missbanen/NIK related kinasa (MINIK) Phila	Homo sepiens Missbanen Mik-related Knace (MINK), mRNA	Homo saplens origin recognition complex, subunit 5 (yeast homolog)-like (ORC5L) mRNA, and translated products	Homo sapiens origin recognition complex, subunit 5 (yeast homolog)-like (ORCSL) mRNA, and translated products	Homo saplens chromosome 21 segment HS21C101	Homo saplens hypothetical protein FLJ20309 (FLJ20309), mRNA	Novel human gene mapping to chomosome 1	Homo saplens sodium/calcium exchanger isoform NaCa3 (NCX1) mRNA complete cds	Homo sapiens HLA-B gene for human leucocyte antigen B	Homo sapiens HLA-B gene for human leucocyte antigen B	EST380830 MAGE resequences, MAGJ Homo sentens cDNA	EST380930 MAGE resequences, MAGJ Homo sepiens cDNA	yy59c02.r1 Soares multiple sclarosis 2NbHMSP Homo saniens cDNA clone IMAGE-277826 S	Homo sapiens G-2 and S-phase expressed 1 (GTSE1). mRNA	601508378F1 NIH MGC 71 Homo sapiens cDNA clone IMAGE:3909931 5'	AV717817 DCB Homo sapiens cDNA clone DCBADC07 5'
Top Hit Database Source	EST HUMAN							Į.					IN							Ł	Į.	±N.		EST HUMAN E	EST HUMAN	EST HUMAN		1 -	EST_HUMAN A
Top Hit Acession No.	6 N55323.1	11141880 NT	7662223 NT	3.0E-66 AB020699.1		11417946 NT	11417946 NT	3.0E-66 AK024453.1	11417118 NT	7019480 NT	AF155659.1	5453949 NT	AF223391.1	57334	7657334 INT	4505524 NT	4505524 NT	AL163301.2	8923290 NT	AL117233.1	AF108389.1	AJ133267.2		AW968854.1	AW968854.1	N45480.1	11418318 NT	BE887173.1	AV717817.1
Most Similar (Top) Hit BLAST E Value	3.0E-66	3.0E-66	3.0E-66	3.0E-66	3.0E-66 M13975.1	3.0E-66	3.0E-86	3.0E-66	3.0E-66	3.0E-66	3.0E-66	3.0E-66	3.0E-66	2.0E-68	2.0E-66	2.0E-66	2.0E-66		2.0E-66	2.0E-66 ≠	2.0E-66	2.0E-66 A	2.0E-66	2.0E-66	2.0E-66 A	2.0E-66 N	2.0E-66	1.0E-66	1.0E-68 A
Expression Signal	1.16	3.54	6.3	1.14	0.73	1.92	1.92	0.62	0.52	0.8	26.0	6.18	1.57	2.15	2.15	1.76	1.76	2.05	0.77	0.68	0.8	9.48	9.48	1.3	1.3	2.26	2.37	1.15	1.36
ORF SEQ ID NO:	27431	28156	28520	30870	31186			35275	35459	35828	36287	37406	37730	25505	25506	25437	25438	27272	28920	29134	29417	29973	29974	31439	31440	34585			28309
Exan SEQ ID NO:	14711	15418	15880	H	18289		_	ı	- 1	22621	23066	24095	24396	12879	12879	12824	12824	14558	16266	16500	16789	17342	17342	18518	18518	21438	25370	14422	15662
Probe SEQ ID NO:	1975	2711	3115	5380	5490	5686	5686	9425	9619	9973	10420	11494	11808	92	20	413	£13	1819	3510	3747	4044	4607	4607	5726	5726	8746	12329	1678	2895

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Table 4
Fron Probes Expressed in B

Single Exon Probes Expressed in Brain	Most Similar (Top) Hit Acession BLASTE No. Source Source	36 1.0E-66/AV7178171 EST HIMAAN AV747847 DCB Home conference COMMAN CONTROLL CONTROL	1.0E-66 AV717817.1 FST HIMAN	1.0E-66 AV717817.1	1.0E-66 BF673088.1 EST HUMAN	1.0E-66 BE765232.1 EST HUMAN	1.0E-66 BE765232.1 EST HUMAN	1.0E-66 BF328623.1	1.0E-66 AA668858.1 EST HUMAN	1.0E-68 AA018928.1 EST HUMAN 2557612.1 States ratios NOMAHD HUMO continue CDNA 4	1.0E-66 AV748749.1 EST HUMAN	1.0E-66 AV748749.1 EST_HUMAN	1.0E-88 AF11167.2 NIT	1.0E-56 AW968744.1	9.0E-67 11418177 NT	7.0E-67 AW162232.1 EST HIMAN	10 HO	7 0F-67 WA5047 4 FEST DIMAN	7.0E-67 W85947 1 FST HIMANI	7.0E-67 7657243	7.0E-67 7657243 NT	7.0E-67 AW162232.1 EST HUMAN	7.0E-67 10190695	7.0E-67 11425572 NT	7.0E-67 11425572 NT	7 0E-67 4885084 NIT	7.0E-67 11419212 NT	11419212 NT	7 00 87
Single	Top Hit Acession No.	T	T	T	l	ļ	ĺ	Γ						Τ	8177					657243	7657243 NT		695	11425572 NT	11425572 NT	4885084 NIT	11419212 INT	11419212 NT	4557732 NIT
	Most Similar (Top) Hit BLAST E Value	1.0E-66	1.0E-66	1.0E-66,	1.0E-66	1.0E-66	1.0E-66		1.0E-66/		1.0E-66 /	1.0E-86 /	1.0E-66.4	1.0E-66/	9.0E-67						7.0E-67		-	7.0E-67	7.0E-67	7 0E-67	7.0E-67	7.0E-67	7 0F-67
	Expression Signal	1.36	3.81	3.81	5.96	0.77	0.77	1.57	1.19	0.84	0.92	0.92	2.48	1.8	2.51	1.52	G	138	1.38	2.06	2.06	3.4	0.78	2.02	2.02	1.29	+	-	0.59
	ORF SEQ ID NO:	28310	28309	28310	30761	31406	31407	32526	34189	35164	36129	36130	36789	37422		25841	28784	26979	26980	27489	27490	25841	31733	31927	31928	32399	33296	33297	34052
	Exen SEQ ID NO:	15662	15662	15662	18102	18486	١	ŀ	- 1	21993	22918	22918	23542	24109	24606	13196	14109	14293	14293	14761	14761	13196	18770	18954	18954	19385	20201	20201	20916
	Probe SEQ ID NO:	2895	4352	4352	5297	5692	5692	6839	8357	9326	10270	10270	10862	11509	12113	371	1361	1547	1547	2026	2026	2813	5989	6177	6177	6623	7531	7531	8222

Page 345 of 536 Table 4 Single Exon Probes Expressed in Brain

Single Exon Probes Expressed in Brain	EQ Expression (Top) Hit Acession Top Hit Acession Top Hit Acession Signal Top Hit Descriptor Database Source Value Source Top Hit Descriptor		6.37 7.0E 67 1100,000 1	3.24 7.0E-07 U62486.1 NT	2.24 (.0E-6/) 11430460 NT	7.24 (.UE-67 11430460 NT	1.30 7.0E-67 AB011399.1 NT	2.12 6.0E-67 X68968.1 NT	1.20 6.0E 67 54.25%	1.17 6.0E-67 1.143.20.1	1.64 6.0F-67 4505434 N	1.84 R.NE-67	0.7 60E-67 A1 163204 2	0.7 60F-67 A1 183201.2	5.01 6.0E-67 7557000 117	5.01 8 0E-87 755700 NT	1 23 R NE-87 15070 N I	1.91 5.0E-87 A ENOSes 4	1.68 5.0E.67 RE010039 4	0.93 4.0E-87 Rooman	0.82 4.0E-67.417330323	4.0E-67 BF357321 FST HIMAN		1.38 4.0E-67 AA714294.1 EST_HUMAN	1.30 3.0E-67 AA333768.1 EST HUMAN	2 87 2 6F 67 AM SECONDARY	S.UE-O/ AW 809159.1 EST HUMAN	1.53 3.0E-67/BF196068.1 EST HUMAN	EST HUMAN	0.81 2.0E.67 BE3.4835.4	7.3 2 0F-67 AW846405 4 FOT 11 11 11 11 11 11 11 11 11 11 11 11 11	201 04 04 0400
					1		1			\perp	L				L	L	L	L	L						1		1					
	SEQ ID ORF SEQ ID NO:	23918	24272 37594	l					13999 28666	15929 28578	16187 28835	16187 28836	16849 29474	16849 29475	17391 30025	17391 30026	17635	15978 28629	23585	14054 26728	20615 33743	20975	23660	13306 26024				75 33905	287	96 25635		41
	Probe SEQ ID NO:	11256 2	11677 24	11898 24	1	1	1	778 13	ı	3166 15	Ш	L	4106 16			4657 17:	<u>. </u>	3215 15	10905 23	1305 140		8281 209	10006	ı	Ł	4646 17380	l		11224 23887	183 12996	825 13595	1083 13811

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Table 4

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Single Exon Probes Expressed in Brain	Top Hit Descriptor	ba72g05.y1 NIH MGC_20 Homo sapiens oDNA clone IMAGE:2905976 5' similar to TR:094892 Оя4892	ba72g05,y1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:2905976 5' similar to TR-novaeco novaeco	KIAA0798 PROTEIN.;	Homo sapiens hypothetical protein dJ462O23.2 (DJ462O23.2), mRNA	Home sapiens hypothetical protein dJ462O23.2 (DJ462O23.2), mRNA	nonto sapiens KrAb zinc finger protein ZFQR mRNA, complete cds	nome sablens developmentally regulated GTP-binding protein 1 (DRG1), mRNA	Zustigut, st. Sogres_testis_NHT Homo sapiens cDNA clone IMAGE:745392.3'	riomo sapiens chromosome 21 segment HS21C100	Nover numan gene mapping to chomosome 13	6018/5351F1 NIH_MGC_55 Hamo sapiens cDNA done IMAGE:4091893 5	Homo sapiens mRNA for NADPH-cytochrome P-450 reductase, complete cds	Homo saplens mRNA for NADPH-cytochrome P-450 reductase, complete cds	UKF-2p/61A229_r1 761 (synonym: hamy2) Homo sapiens cDNA clone DKF2p761A229 51	ES I 38850 Embryo, 9 week Homo saplens cDNA 5' end similar to similar to cerebellin	ES I 38830 Embryo, 9 week Hamo sapiens cDNA 5' end similar to similar to cerebellin	RC4-B10566-170100-011-c07 BT0566 Homo sapiens cDNA	AV72000 170100-011-c07 BT0566 Homo sapiens cDNA	AV731333 H I F Homo sapiens cDNA clone HTFARD03 5	OI-H-BIZ-ahn-9-10-0-UI.s1 NCI_CGAP_Sub4 Homo saplens cDNA clone IMAGE:2727283 31	OU 1433262F1 NIH_MGC_66 Homo saplens cDNA clone IMAGE:3858975 5	numo sapiens KIAA0985 protein (KIAA0985), mRNA	DNA TAIAGE CASES OF THE MGC_17 Hamo sapiens cDNA clone IMAGE:3531038 5'	river in the control of TN0103 Home sapiens cDNA	Homo sapiens thyroid autoantigen 70kD (Ku antigen) (G22P1), mRNA	norno saprens gamma-glutamytransferase 1 (GCT1), mRNA	Homo sapiens amyloid beta (A4) precursor protein (professe nevin-II Alzheimar Alsesa) (ABS)	90b04.s1 Soares fetal liver spleen 1NF S S1 Home segment in the state of the spleen 1NF S S1 Home segment in the spleen 1NF S1	w865612.XI NCI CGAP GC6 Homo capitates ODNA close suppression of the control of t	601448558F1 NIH MGC 65 Home sanisms CDNA clone IMAGE: 2310550 3	2q82h10.r1 Stratagene hVT neuron (#937233) Homo sapiens cDNA clone IMAGE:648163 5' similar to	ייייייייייייייייייייייייייייייייייייי
igle Exon Pro	Top Hit Database Source	H H	NICE OF LOCAL PROPERTY OF LOCA	ESI_HUMAN	LN	L L		ECT LIMAN	NAMOL TOWN		10 TO T	ES HUMAN	2	1200	ES HOMAN	ESI HUMAN	ES HUMAN	Т	7	T	T	2000	T LI MANN	T	NO.						EST_HUMAN 6	EST HUMAN IS	7
<u>i</u> S	Top Hit Acess	BE303037 1	2 0F-67 BE303037 4	44400046 NE		AF3095	4758705 NIT	2.0E-67 AA625755 4			Ι	Τ	T	T	1	2 0F-87 AA334800 4		T	T		T	36448	BE295714 1	Τ	3,20	11417877 NT		27166			BE870732.1 E	AA209456.1 E	
	Most Similar (Top) Hit BLAST E Value	2.0E-67	2 0F-67	2.0F-67	2.0E-67	2.0E-67	2.0E-67	2.0E-67	2.0E-67	2.0E-67	2 0F-87	20F-67	2 0E-87	2 0F-67	2.0F-67	2 0F-87	2.0E-87	2.0E-67	2.0E-87.4							2.0E-67			Y /0-10'	1.0E-67 A	8.0E-68 B	8.0E-68 A	
	Expression Signal	1.36	1.36	1.3	1.3	1.09	1.28	3.8	3.03	0.6	5,54	2.46	2.46	0.76	0.82	0.82	1.21	1.21	0.83	0.97	3.72	.4.67	2.11	1.86	1.36	2.05	6	4 24	5 6	8.58	2.13	4,96	!
	ORF SEQ ID NO:	27325	27326	27702	27703	27845	27887	28870	29366	31726	31774	31956	31957	32315	34290	34291	34724	34725	35246	35447	36899		37145	36433	30819	31018	25805	26114	37770	07775	27,030	29238	
	Exon SEQ ID NO:	14614	14614	14963		- 1	15153	16216	16732	18762	18814	18978	18978	19310	21148	21148	21586	21586	22076	22261	23646	25433	23858	23201	25231	24874	13055	13467	24420	2007	305	16601	
	Probe SEQ ID NO:	1877	1877	2235	2235	2384	2432	3460	3984	288	9334	6203	6203	6545	8456	8456	8895	8895	9466	9608	10970	10988	11193	1434	12235	12527	246	692	11845	24.70	1	3851	
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Single Exon Probes Expressed in Brain	Top Hit Descriptor	zq82h10.r1 Stratagene hNT neuron (#937233) Homo sapiens cDNA clone IMAGE:648163 5' similer to	SW.SAV_SULAC 007590 SAV PROTEIN.;	Woosedus.XI NCI_CGAP_P728 Homo sapiens cDNA clone IMAGE:2312860 3	From Sapiens mitty of KIAA0620 protein, partial cds Homo sapiens brofeldin A inchitied	Homo septiens killer inhibitory receptor 2-2-1 (KIR221) and killer inhibitory receptor 2-2-2 (KIR222) genes	partial cds	601432007F1 NIH_MGC_66 Homo sapiens cDNA clone IMAGE:3855761 5	Homo sarlong of the control of the c	Homo sapters chromosome 21 unknown mRNA	Train septens circumosome Z1 unknown mRNA	Homo sapiens Chromosome 21 unknown mRNA	Tronic september in NAPA 107 NAPA 1970 Protein, partial cds	DNFZp34/DZV/_T134/ (symonym: hfbr1) Homo sapiens cDNA clone DKFZp547D207 5	normo septens rAbasA Interacting protein (rabins)-like 1 (RAB3IL1), mRNA	Tromio sapiens RABSA interacting protein (rabin3)-like 1 (RAB3IL1), mRNA	OCT OCTABLE 3-PHOSPHA IE DEHYDROGENASE, LIVER	Home sapiens delodinase, todothyronine, type II (DIO2), transcript variant 2, mRNA	Unito sapiens seguin (SEUL) gene, exon 4	Homo carlone carried carboxypeptidase 1 precursor protein (HSCP1), mRNA	Homo sopians, DKF20562 A22	Homo saplens mRNA for KIA A6445	Homo sapiens mBNA for KIAAA145 motern, partial cds	Homo sapiens mRNA for KIAA1485 profein, parutal cas	(mn caniane models tracted by control to the control of the contro	Homo sapiens protein tyrosine phosphatase type IVA, member 1 (PTP4A1) mRNA	Homo saniens mBNA for kInd 4646.	Omo sapiene NESDER ONIVE.	Home sentions are 1-0; Over 1 antisense (partial) and X alphas (partial) genes	Home capter is equilinger m microfubule associated protein-like (EMAPL), mRNA	Trum saprems echnoderm microtubule associated protein-like (EMAPL), mRNA	musculus c-protein coupled receptor GPR73 (Gpr73) mRNA, complete cds qt38h02.x1 Soares_fetal_lung_NbHL19W Homo sapiens cDNA clone IMAGE-195026131 strimites to contain	THR.12 THR repetitive element;
gie Exon Pror	Top Hit Database Source	TOTAL TITLE	EST LINAN	NEW TOWN	L	Į.	14474	T	Т				T LI INAMA	NOMOL		TOGGGGG	20120																EST_HUMAN T
5	Top Hit Acession No.	R A 200458 1	8 AIR10505 1	AB014520 1	11422086 NT	A E 133001 4	RER1254 1	BF310675 1	AF231919.1		T			19512	7040542 NIT	P04406	7540804	AF157063 1	5001	11055991	7661683 NT	D63479.2	Γ	AB040918.1	4506282 NT	4506282 NT	AB040948.1	Γ	58267	4758267 NT	AF2360R2 1		AI342323.1
	Most Similar (Top) Hit BLAST E Value	8.05-68	7.0F-68	6.0E-68	6.0E-68	60F.88					5.0E-68	5.0E-68	5.0E-68	5.0E-68	5.0F-68	4.0E-68	4.0E-68	4.0E-68		4.0E-68	4.0E-68	4.0E-68	4.0E-68	4.0E-68	4.0E-68	4.0E-68	4.0E-68	4.0E-68	4.0E-68	4.0E-68			
	Expression Signal	4.96	0,55	0.56	2.47	1.61	1.78	4-	5.05	5.05	1.36	3.23	0.73	0.61	0.61	9.55	0.87	0.7	6.51	6.51	99.0	5.05	5.05	3.08	1.68	1.68	1.26	1.39	12.15	12.15	5.37	r ca	170.0
	ORF'SEQ ID NO:	29239		33518		37042		30963					29819	32402	32403		30434	31602	32629	32630	33356	34771	34772	34929	36854	36855	37061	37749	37789	37790	29045	\ \ \	
	SEQ ID NO:	16601	L.		22994	23767	24875	25026	13572	13572		li	17193	19389	19389	17646	17817	18661	19592	19592	20250	21629	21629	21766	23605	23605	23785	24412	24448	24448	16406	20428	
	Probe SEQ ID NO:	3851	8000	7737	10347	11097	12529	12772	800	8	2783	3144	4457	6627	6627	4918	5098	5874	6675	6675	7582	888	8838	2007	10925	10925	11115	11828	11864	11864	3653	9357	
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Cirgic Exort Flores Expressed III Brain	Top Hit Descriptor	HSPD18178 HM3 Home sabiens cDNA close sanonaano	Greetulus Jongicaudatus mRNA for EE-1 darks complete add	Homo saplens gene for activin recentor has IIB complete cas	vg38c04.s1 Scares infant brain 1MIB Home conjunction (NIA)	601458514F1 NIH MGC 68 Home saniers CDMA close IMA CE 368600 3	IL3-CT0534-180900-273-A01 CT0534 Home saniens conta	FORMIN 4 (LIMB DEFORMITY PROTEIN)	VZ78407.r1 Sources multiple sciences 2NN-HASD Home sensions a DNIA - Li- 1970 Contraction	QV0-BT0074-130999-014-004 RT0074 Homo seniens CDNA	Homo sapiens meninging (disrupted in balanced transformation) 4 (MM) (1) — DNA	OV4-ST0234-181199-037-65-ST0234-Home centers and content of the co	Home saniens mBNA for KIAA0522 weeks a complete to the	Homo sapiens mRNA for KIA A0577 morbit.	17700251 NIH M.C. 17 Home continue CDNA cl. 1110 OF CONTINUE CO.	847a12.s1 Soares NET T GBC S1 Home earliers CDNA close (NA CELASSEA)	Homo sanjens cell reconnition molecule Comes (LIVA Comes) (LIVA CE) (400016)	Homo saplens sentin/SI IMO maniformation (SENISA)	2w74df011 Stares testis NHT Homo conjunction and MACE 124.000 r.	Home spales becarding and in the papers CDNA done IMAGE; 81923 5	Homo saniens phosphodiestovase 70 (PDE/D), mRNA	Homo sapiens MIP2 suppressor (HSMTs) mBNA commissions	Homo saplens myosin IC (MYO1C) mRNA	Homo sapiens Interleukin-7 recentor precursor (II 7R) nene expre 7 and 8 and complete add	Human protein kinase C substrate 80K-H (PRKCSH) gene exon 4-5	Human protein kinase C substrate 80K-H (PRKCSH) gene exon 4-5	Homo sapiens CGI-76 protein (LOC51632) mRNA	Homo septens CGI-76 profein (LOC51632) mRNA	Homo sapiens meningioma (disrupted in balanced transferentian) 1 (MM1)	Homo sapiens low density Ilpoprotein-related protein 2 (I RP2) mRNA	Homo sapiens pre-B-cell colony-enhancing factor (PBEE) mBNA	Homo sapiens pre-B-cell colony-enhancing factor (PRFF) mRNA	Homo sapiens 26S proteasome-associated part homolog (DOH1) m DNA	Homo saplens 26S proteasome associated pad1 homolog (POH1) mRNA	Homo sapiens EphA4 (EPHA4) mRNA
	Top Hit Database Source	EST HUMAN H	Г		T HUMAN	Т	T	Ì	EST HUMAN VZ	T		EST HUMAN OV			H IMAN	Т			T HUMAN						NT Hu	N F									
	Top Hit Acession No.	F28784.1	D00522.1	AB008681.1	R45088.1	2	BF336745.1	Q05859	N78483.1	BF330594.1	4505222 NT	AW816405.1	Γ		T	Ī	32349	11436718 NT	AA429538.1	88	11418869 NT	L76416.1	1433277	AF043129.1	U50319.1	U50319.1	11418431 NT	11418431 NT	4505222 NT	11430460 NT	5031976 NT	5031976 NT	5031980 NT	5031980 NT	4758279 NT
	Most Similar (Top) Hit BLAST E Value	3.0E-68	2.0E-68				2.0E-68	2.0E-68		2.0E-88	1.0E-88	1.0E-68						1.0E-68	1.0E-68/		1.0E-68	1.0E-681		1.0E-68			1.0E-68	1.0E-68	1.0E-68	1.0E-68	9.0E-69	9.0E-69	9.0E-69	9.0E-69	9.0E-69
	Expression Signal	1.23	15.31	1.38	9.54	5.38	0.73	0.63	0.75	1.86	-	13	8	8.	0.95	0.92	1.37	-	9.0	1.85	1.85	3.5	1.71	1.62	1.28	1.26	1.48	1.48	2.66	2.11	1.16	1.16	1.41	1.41	1.15
	ORF SEQ ID NO:	36261		30004		32462	33030	34685	. 36376	37160	25541	25737	27715	27716	29373	30302	30674	33350	36235	36685	36686	36741	37098	37176	37223	37224	37584	37585	25541	30712	25460	25461	26426	26427	27740
	Ø				19520				_!		12903	13095	14977	14977	16739	17694	18045	20245	23019	23441	1	23502	23815	23889	23931	23931	24261	24261	12903	25322	12847	12847	13766	13766	15001
	Probe SEQ ID NO:	10399	2865	4633	6776	969	7270	8848	10505	11210	12	289	2249	2249	3991	4969	5239	7576	10373	10756	10756	10819	11148	11226	11270	11270	11666	11666	12511	12719	19	19	1006	100	2275

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			т	Т-	Т	_			_	_	_				_	_											_		
Single Exon Probes Expressed in Brain	Тор Hit Descriptar		Home saprens EphA4 (EPHA4) mRNA	Trumo Saprens V-rat murine Sarcoma viral oncogene homolog B1 (BRAF) mRNA	Home caries a Dibital Company of the HEMBA1000968 5'	Homo sapiens actional departally, exon 12	qe62h01 x1 Soares_fetal_Ling_NbH-L198W Homo sapiens cDNA clone IMAGE:1743601 3' similar to	geochol x1 Soares fatal lung NbHL19W Home sapiens cDNA clone IMAGE:1743601 3' similar to	gold 1 100 out RIBOSOMAL PROTEIN L18 (HUMAN);	WOODENS, STINC CAP GCBT Homo sapiens cDNA clone IMAGE:1372300 3'	Antadazione della Nacional Sapiens CDNA clone IMAGE:2437125 3'	who the first NCI_CGAP_Kint1 Home septens cDNA clone IMAGE:3677641 5' who the first NCI_CGAP_Kint1 Home septens cDNA clone IMAGE:2384819 3' similar to TR:055137	Lamp Society of Hall Control Extensions and the second sec	Homo seniens latent transforming growth factor beta binding protein 2 (LTBP2) mRNA	Al 1410834 HENDRA U.S. C.	BO1110371E1 NIH MOC 18 U	Homo sabiens Smad- and Olf-interacting the face control in 1813	The state of the s	yd08a02.r1 Soares infant brain 1NIB Homo sapiens cDNA clone IMAGE:24880 5' similar to SP:A48836 A48836 SPEGE III:EGE REDEAT CONTRAINING FIREDOCTION CO	Homo sapiens aconitase 2. mitochondrial (ACO2) mRNA	domo sapiens dNT.2 news for mitochastal Evon J	Homo saplens sperm surface protein (HSC) - mBNA	Homo septens short clain L-3-hydroxyacyl-CoA dehydrogenase precursor (HADHSC) gene, nuclear gene	ericoaing mitochandria protein, complete cds	Train saperis arm-repeat protein NPRAP/neurojungin (CTNND2) mRNA, partial cds	Hamo sapiens I RAF6-binding protein T6BP mRNA, complete cds	U-H-BIT-dow-g-01-0-UI.s1 NCI_CGAP_Sub3 Homo sapiens cDNA clone IMAGE:2715840 3'	H. sepiens mRNA for N-acety/glucosamide/beta 1-42-palactosytransferace	ממשקים שומים ופופופפפ
igie Exon Prot	Top Hit Database Source	FIA	L L	ENT HIMAN	LN LN	L	EST HIMAN		- [Т	ı		ZWO.		T HI IMAN		IN	$\overline{}$		11418185 NT						1	EST HIMAN	Т	
	Top Hit Acession No.	T758270	TN 528517	AU117241 1	AJ237744 1	9966912 NT	Al192764.1	AI192764 1	AA826030 1	Al873630 1	BE561063 1	AI764973.1	4557732 NT	4557732 NT	AU119634 1	İ			T80514.1	11418185	AJ277557.1	11426786 NT	AF095703 1		-				
	Most Similar (Top) Hit BLAST E Value	9.0E-69	9.0F-69				6.0E-69	6.0E-69			4.0E-69	4.0E-89		4.0E-89		3.0E-69	3.0E-69		3.0E-69 T	3.0E-69	3.0E-89 A	3.0E-69	3.0E-69.A		_	3.0E-69		_	
	Expression Signal	1.15	0.71	8.5	1.09	6.49	9.09	60.6	1.01	1.76	1.42	5.28	2.71	2.71	0.52	3.69	2:32		3.19	3.64	0.67	0.74	0.68	1.83	832	0.88	0.65	1.01	
	ORF SEQ ID NO:	L	29479	L		32008	33581	33582	34709		31384	31467	32301	32302	34651	25848	26006			37797		30563	33032	33082	33219	34106		35152	
	Exan SEQ (D NO:	15001	16852	23488	16140	19033	20458	20458	21564	l	25073	18545	19297	19297	21504	13202	13376		ľ	17894	19620	17928	19956	20003	20127	20964	21358	21980	
	Probe SEQ ID NO:	2275	4109	10805	3381	6259	7762	7762	8873	202	5674	5753	6531	6531	8812	377	298		1548	5163	6705	6759	7272	7320	7451	8270	8666	9313	

Page 350 of 536 Table 4 Single Exon Probes Expressed in Brain

	Expression (Top) Hit Acession Signal BLAST E No. Source Source	Human mRNA for calcium-binding protein in macrophages (MRP-14) macrophage migration inhibitory factor (MRP-16) macrophage migration inhibitory factor	5730036 NT	1.44 3.0E-89 11432120.NT Home series a Processer I (SECTULT), MRNA	AA376399.1 EST HUMAN	11419157	AF160252.1 NT	Ż	AF160252.1 INT	AF160252 1 NT	2.0E-69 BE257857 1 FST HIMAN	2.0E-69 AA431157 1 FST HIMAN	2.0E-89 AA114270.1 FST HIMAN	1.0E-69 AF053768 1	1.0E-69 BE409094.1	BE9025011 FET HIMAN	1.0E-69 BE902501.1	1.0E-69 AW393969.1 EST HUMAN	7662263 NT	1.0E-69 7662263 NT			BE531007.1 EST HUMAN	1.14 1.0E-69 BE631007.1 EST_HUMAN 601278532F1 NIH MGC 39 Homo sapiens CDNs Appre IMAGE: 3410844 F.	l	LOUI HOU	4 OF SO A POA 4 SON A SO	1.0E-09/AB01460/.1	I.UE-09 BF328429.1 EST_HUMAN	1.0E-69 4504918/NT	1.74 1.0E-69 BF125887.1 EST_HUMAN 601762902F1 NIH MGC_20 Homo sapiens cDNA clone IMAGE:4025785 5'	4.45 1.0E-69 Al809994.1 EST HUMAN repetitive element-certains element MID concettue closures.	
_	ORF SEQ E	35286	35582	36468			25827	25828	25827	25828	27327	_	34284	27139	_	31700	31701	32274	32679	32680	32603	32604	32554	32555	35937	35938	38034	38477	1		37261		
	Exon SEQ ID NO:	22111				24552	13180	13180	13180	13180	14615	15616	21144	14441	17687	18741	18741	19273	19636	19636	19571	19571	19526	19526	22721	22721	22816	22084	23485	20102	24512	24769	
	Probe SEQ ID NO:	9433	9729	10538	10745	12024	128	126	395	395	1878	2848	8452	1698	4962	5959	5929	6508	6721	6721	6737	6737	6782	6782	10073	10073	10168	10314	10782	70.02	4261	12366	

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Single Exon Probes Expressed in Brain Top Hit Acession Top Hit Descriptor Top Hit Descriptor Top Hit Acession Top Hit Descriptor Top Hit Acession Top Hit Descriptor Top Hit Descriptor Top Hit Acession Top Hit Acession Top Hit Descriptor Top Hit Acession Top Hit Acession Top Hit Descriptor Top Hit Acession Top Hit Descriptor Top Hit Acession To	1 7 7	$\overline{}$		\neg		_	_	_	_	_															
Most Similar Top Hit Acession Top Hit Acession CTop) Hit Top Hit Acession Top	Homo Sapiens spastic paraplegia 4 (autosomal dominant; spastin) (SPG4), mRNA Homo sapiens spastic peraplegia 4 (autosomal dominant; spastin) (SPG4), mRNA	r unio sapieris Nuo i 4 minny torin-deacetylase/N-sulfotransferase 4, complete cds Homo sapiens spastic paraplegia 4 (autosomal dominant: spastin) (SPG4), mRNA	Homo sapiens NDST4 mRNA for Nidemethone N. Homosapies 4, complete cas	Homo saplens NDST4 mRNA for N-deacetylasea/N-suitirtransferance 4 commission and	Homo sapiens glutamate-cysteine ligase (gamma-glutamylcysteine synthetase), catalytic (72.8kD) (GLCLC) mRNA	Homo sapiens karyopherin beta 2b, transportin (TRN2), mRNA	Homo saplens kanyopherin beta 2b, transportin (TRN2), mRNA	Homo sapiens phospholipid scramblase 1 gans awn 1 and E' familian and and and and and a scramblase 1	Himan DRY3 milyto	The state of the s	ruman displacement protein (CCAA1) mRNA	Homo sapiens mRNA for KIAA1294 protein, partial cds	Homo sapiens mRNA for KIAA1294 protein, partial cds	Homo sapiens gene encoding splicing factor SF1, exons 2-8	Homo sapiens MIST mRNA, partial cds	Homo sablens MIST mRNA partial cde	Homo sapiens adenviate cyclase 3 (ADCV3) with A	Homo sapiens timor stranges or related approached the related to 1020 9	215h04.r1 NCI CGAP GCB1 Homo septems cDNA clone IMA CE:212505 5	tm89f01.x1 NCL CGAP Bross Home serions about a loss IMA CT CASSAS SI	tm89/01.x1 NCI CGAP Brn25 Home serviens cDNA close IMA CE 23/2520 5 21	Homo sapiens DGS-I mRNA 3' end	Inc13d12.r1 NCI CGAP Pr1 Homo Semiens CDNA close IMA CE: 1008022	Top Hit Descriptor	
Most Similar Top Hit Acess									Ļ				NT	LN	N	N.	N	N	EST HUMAN	EST HUMAN	EST HUMAN	Į.	EST HUMAN	Top Hit Database Source	Top Hit
Expression (Top) Hit Signal (Top) Hit Si	11429685	39685		B036429.1	4557624	11525964	11525964					-1					4757723	5031668	4A282955.1	4 497807.1	41497807.1	177566.1	AA230303.1	Top Hit Acession No.	Top Hit Acession
Signe Signe Control of the Control o	7.0E-70				7.0E-70	7.0E-70	7.0E-70	7.0E-70	7.0E-70	7 OF -70 V	7 05 70	7.0E-70	7.0E-70 /	7.0E-70 /	7.0E-70	7.0E-70	7.0E-70	7.0E-70	7.0E-70	7.0E-70	7.0E-70	8.0E-70	8.0E-70	(Top) Hit BLAST E Value	Most Similar (Top) Hit
7 SEQ 29708 27791 29708 29708 29708 29708 30888 30888 30888 30888 30888 30888 30888 34160 34456 34456 34456 33652	1.54	43.	0.62	0.62	0.57	2.69	2.69	3.43	3.8	88	3 58	2.2	2.2	2.16	4.88	4.88	3.67	2.92	1.66	1.01	1.01	1.93	2.08	Expression Signal	Expression
8	36942	36941	36059	36058	35394	33552	33551	33522	34903	34902	3445R	34100	34159	32509	30889	30888	29566		27371					ORF SEQ ID NO:	ORF SEQ
Exon SEQ ID NO: 145691 14546 14546 14660 14660 14660 14660 14660 14660 14660 14660 16940 18195 18195 18195 18195 18195 18195 21023 21023 21023 21023 21023 21023 21023 21023 22040 222844 223682 223643 224198	23682	23682	22844	22844	22209	20431	20431	20406	21744	21744	21314	21314	- 1	- 1	١									Ø	
Probe SEQ ID NO: 2331 4340 1806 1922 2056 2395 8330 8330 8330 8330 10196 10196 11010 111597	11010	11010	10196	10196	9556	9361	9361	9335	9055	9055	8622	8622	830	928	5395	5395	4199	2056	1923	1806	1806	4340	2331	SEQ ID NO:	Probe

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Table 4
Even Brobes Evensed in B

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Single Exon Probes Expressed in Brain	Top Hit Descriptor	Homo seniens KIAA0792 gene module (KIAA0700) - Bala	MR3-HT0487-150202-115-a06 HT0487 Home conjune child	EST03928 Fetal brain. Stratagene (cattoone) Homo canions only also Urbbanes	CM4-UM0003-010300-108-008 LIMO003 Home series contact content of the property	CM4-UM0003-010300-105-008 I IM0003 Home series collab	RC0-BT0522-071299-011-812 RT0522 Home company CNIA	RC0-BT0522-071299-011-a12 BT0522 Homo saniens cDNA	Homo sapiens plakonhilin 4 (PKPA) mBNA	Homo sepiens plakophilin 4 (PKPA) mRNA	wh90d03.x1 NCI CGAP CLI1 Home seniers cDNA close IMA CE 1226800E 21	50214156151 NIH MGC 48 Home celebra de DNA 445-6 14 MGC 48 Home celebra 445-6 14 MGC 48 Home celebra de DNA 445-6 14 MGC 45 Home celebra de DNA 45 Home	602141661F1 NIH MGC 46 Homo saniens CDNA Alma MACE 4202806 5	hz81h02 x1 NCI CGAP Lida Homo conjector and Literature 1450z200 b	Homo sapiens phosphatidylinosital 4-kipase 230 (n/4K/230) mDNA complete 24	yy07a10.r1 Soares melancoya 2NbHM Homo sapians CDNA clone IMAGE:270522 5' similar to SW-D3HI DAT D20362 a LYADDAYANCHI TATA	3y07a10.r1 Soares melanocyte 2NbHM Homo saplens cDNA clone IMAGE:270522 5' similar to	SW:D3HI_RAT P29266 3-HYDROXYISOBUTYRATE DEHYDROGENASE PRECURSOR;	qx51h01.x1 NCI_CCAP_Pan1 Homo sapiens cDNA clone IMAGE:2004913 3'	Homo sapiens hypothetical protein FLJ20758 (FLJ20758), mRNA	Homo saplens KIAA0193 gene product (KIAA0193), mRNA	Homo sapiens KIAA0193 gene product (KIAA0193), mRNA	Homo sapiens chromosome 21 segment HS21C002	z/48g04.r1 Soares retina N2b4HR Homo sapiens cDNA clone IMAGE:380214 5' similar to SW:GAG_HTL1A P03345 GAG POLYPROTEN	VP68b04.r1 Soares fetal liver spleen 1NFI S Homo sanians CONA class (14A/OE:474500 51	Human nonmuscle myosin heavy chain-B (MYHAI) mBMA harding	H. saplens gene for schwannomin (CSB)	H.sapiens gene for schwannomin (CS8)	Homo sapiens NALP1 mRNA, complete cds	Human mRNA for NF1 protein isoform (neurofibromin isoform) complete cds	Homo sapiens cytoplasmic dynein intermediate chain 1 mRNA, complete cds	Homo sapiens cytoplasmic dynein intermediate chain 1 mRNA, complete cds
le Exon Prol	Top Hit Database Source	12	EST HUMAN	EST HUMAN	EST HUMAN	ST HUMAN	EST HUMAN	EST HUMAN		5	ST HUMAN	EST HIMAN	EST HUMAN	EST HUMAN	NT	EST HIMAN		EST_HUMAN	EST_HUMAN	₽	L	L	N	EST HUMAN	П	П		LN LN	ĽN.	Ę	FZ	N _T
Sing	Top Hit Acession No.	7662307 NT	0 BE166034.1		6.1	l			30988	11430988 NT	Al831975.1	BF685233.1	ĺ	BE502973.1		N42161.1			AIZ40889.1	8923669 NT	7661983 NT	1983	AL163202.2	AA054010.1			X72662.1	X72662.1	AF310105.1			AF123074.1
	Most Similar (Top) Hit BLAST E Value	6.0E-70	5.0E-70	4.0E-70	4.0E-70	4.0E-70	3.0E-70	3.0E-70		3.0E-70	3.0E-70	3.0E-70				2.0E-70				20E-70	2.0E-70		2.0E-70 /	2.0E-70	2.0E-70 F	2.0E-70 N	2.0E-70 X	2.0E-70 X	2.0E-70	2.0E-70	2.0E-70	2.0E-70 A
	Expression Signal	2.18	2.75	1.03	1.78	1.78	1.23	1.23	0.65	0.65	1.6	1.65	1.65	0.58	1.2	14.09	;	14.09		1.56	3.05	3.05	1.66	5.32	0.78	5.06	8.7	8.7	1.27	1.75	12.14	12.14
	ORF SEQ ID NO:	28004		32431	32653		27016	27017	31234	31235	31581	32031	32032	35869	25484	26089	0000	26112	20102	26421	8/607	6/507	7/1/7		29011	29404	30939	30940	31857	32307	32342	32343
	Exon SEQ ID NO:	15598	24519	19417				1				19053	19053	22656	12865	13449		13/64	5 5	13/60		2 2	144/0	15043	16368	16772	18227	18227	18888	19303	19333	19333
	Probe SEQ ID NO:	2555	11974	9656	9699	9699	1584	1584	5532	5532	5855	6280	6280	10008	37	673	673	2 6	3 8	3	101	101	200	2318	3615	4027	6428	5428	6111	9238	6269	6269

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Table 4
Single Exon Probes Expressed in Brain

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Origin Lyon I force Lyprosed III Digit	Top Hit Descriptor	Homo sanjans sialvitransferasa & N. arahulasanamini da bini a sanjan sanjan sialvitransferasa & N. arahulasanamini da bini da sanjan sa	Homo sapiens existend that somethers a mRNA commisse of a characteristic content of the content	Human guanine nucleotide binding protein alpha-subunit gene (G-s-alpha) axws 4 and 5	Homo sapiens amylo-1,6-glucosidase, 4-alpha-glucanotransferase (glycogen debranching enzyme, glycogen storage the lll (ACI) mRNA	VD/9902.r1 Spares fetal liver solden 1NEI S Home socions CONA John IMA CE: 100602 E1	Homo saplens dynactin 62 subunit (LOC51164) mRNA	Homo sapiens calcium-binding transporter mRNA, partial chs	Homo sapiens mRNA for KIAA1216 protein, partial cds	Homo sapiens hypothetical protein FLJ20450 (FLJ20450), mRNA	Homo sapiens hypothetical protein FL 120450 (FL 120450) mRNA	Homo saplens eukarvotic translation initiation factor 3 subunit 6 (48kD) (FIE3Se)	Homo sapiens low density inportotein-related protein 2 (1 RP3) mRNA	Homo sapiens low density lipoprotein-related protein 2 (I RP2) mRNA	Homo sapiens transglutaminase 3 (E polypeptide, protein-glutamine-gamma-glutamyliransferase) (TGM3) mRNA	This of Source fetal liver enlant 4NETS S4 Hamman	Formation of the spice of the s	ZV34CV3: I SOZITES_TESTIS_INT I HOMB SEPTENS CIDNA CIONE IMAGE: 757444 5: AV738538 CB Homb septens CIDNA clone ORI B/DB40 8"	qe04f01.x1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1738009 3' similar to TR:014045 014045 PHOSPHOTRANISEERASE	qe04f01.x1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1738009 3' similar to TR:O14045 O14045 PHOSPHOTRANSFERASE.:	wb52c05x1 NCI_CGAP_GC6 Homo saplens cDNA clone IMAGE:2309288 3' similar to TR:P97213 P97213 CDU2, CDU1, TCDD, TCDB, TCDE, TCDA, TCDC, CDDA, CDDA, AND CDDA, CDU2, CDU1, TCDD, TCDB, TCDE, TCDA, CDDA, CDDA, CDDA, AND CDDA, CDU2, AND CDDA, CDU2, AND CDDA, CDU2, CDU3, AND CDDA, CDU2, AND CDDA, CDU2, CDU3, AND CDDA, CDU2, AND CDDA, CDU2, CDU3, CD	wb52c05.XI NCI CGAP_GC6 Homo saplens cDNA clone IMAGE:2309288 3 similar of Rt.P97213 P97213 CDU2, CDU1, TCDD, TCDB, TCDE, TCDC, TCDC, CDD1, CDD2, CDU2, CDU1, TCDD, TCDE, TCDE, TCDC, CDD3, CDD2, CDU2, CDU3, CDU3	221d11.r1 Stratagene neuroepithelium (#937231) Homo sapiens cDNA clone IMAGE:610101 5' similar to	TR:G1143061 G1143061 STRAIN XA34 POL;	zv60h06.r1 Soares_testis_NHT Home sapiens cDNA clone IMAGE:758075 5	291a06.s1 Soares_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:4622263'	Homo sapiens chromosome 21 segment HS21C010	Homo septens SP100-HMG nuclear autoantigen (SP100) mRNA, complete cds
gic Lyon 1 10	Top Hit Database Source	FZ	Ŀ	\ 	Į.	EST HUMAN	NT	NT	LN	L	Ł	N	NT	IN.	F	EST HIMAN	FOT LIMAN	EST HUMAN	EST HUMAN	EST_HUMAN	EST HUMAN	EST HUMAN			EST_HUMAN	EST_HUMAN		LΝ
5	Top Hit Acession No.	11422642INT	AF288207.1	M21741.1	11423599 NT	H47959.1	11526355 NT	AF123303.1	AB033042.1	8923420 NT	8923420 NT	4503520 NT	11430460 NT	11430460 NT	4507476 NT	W85795 1	A 4442202 4	AV738538.1	Al143870.1	Al143870.1	AI654903.1	A1654903.1			AA442230.1			AF056322.1
	Most Similar (Top) Hit BLAST E Value	2.0E-70	2.0E-70	2.0E-70	2.0E-70		2.0E-70			2.0E-70	2.0E-70	2.0E-70	2.0E-70	2.0E-70	1.0E-70		1 OF 70	1.0E-70	9.0E-71		9.0E-71	9.0E-71				7.0E-71		5.0E-71 A
	Expression Signal	1.68	0.76	9.02	0.5	8.0	0.95	1.46	0.47	3.75	3.75	7.32	3.06	3.06	2.63	0.69	0.65	7.13	7.05	7.05	2.23	4.79		5.03	8.9	1.02	2.07	5.97
	ORF SEQ ID NO:	30530		33639	33951					36933	36934	37559	31058	31059				36777	31579	31580	32714	32714			33036	34408	37262	27673
	SEQ ID NO:	17973		ΙI	20815	21250	21756	22686	23146	23677	23677	24236	24757	24757	16147	21850	22349	23532	18641	18641	19668	19668	0.00	80017	19929	21270	23961	14935
	Probe SEQ ID NO:	6897	7303	7819	8121	8558	2906	10038	10500	11005	11005	11639	12353	12353	3388	9180	8696	10852	5854	5854	6932	11508	9000	8	7275	8578	11302	22071

WO 01/57275 PCT/US01/00667

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		_	_	_	_	_	_		_	_				_	_	_		,_				_	,_		_	_		_	_	_		
Onlighe Chair Michael Expressed in Brain	Top Hit Descriptor	QV4-ST0234-181199-037-105 ST0234 Homo sapiens cDNA	Homo saplens cyclin-dependent kinase 6 (CDK6) mRNA	Homo sapiens keratin, hair, acidic, 7 (KRTHA7), mRNA	Home sapiens KIAA0623 gene product (KIAA0623), mRNA	Homo sapiens mRNA for KIAA 1280 protein, partial cds	Homo sapiens mRNA for KIAA1280 protein, partial cds	Homo saplens protein kinase C, beta 1 (PRKCB1), mRNA	Human neurofibromatosis protein type 1 mRNA, 3' end of cds	Homo sapiens MAGUK protein p55T; Protein Associated with Lins 2 (LOC51678), mRNA	Homo sapiens transcription factor WSTF mRNA, complete cds	Homo sapiens nuclear factor related to kappa B binding protein (NFRKB) mRNA	Homo sapiens nuclear factor related to kappa B binding protein (NFRKB) mRNA	Human PreA4 gene for Alzheimer's disease A4 amyloid protein precursor (exon 2)	Homo sapiens IGF-II mRNA-binding protein 3 (KOC1), mRNA	Homo saplens pro-platelet basic protein (includes platelet basic protein, beta-thromboglobulin, connective	tissue-activating peptide ill, neutrophil-activating peptide-2) (PPBP), mRNA	Horno sapiens similar to hypothetical protein FLJ20163 (H. sapiens) (LOC63325), mRNA	Equus caballus glyceraldehyde-3-phosphate dehydrogenase mRNA, partial cds	Equus caballus glyceraldehyde-3-phosphate dehydrogenase mRNA, partial cds	Homo sapiens plasminogen (PLG) mRNA	Homo sapiens SP100-HMG nuclear autoantigen (SP100) mRNA, complete cds	Homo sapiens putative heme-binding protein (SOUL), mRNA	Homo sapiens cofactor required for So1 transcriptional activation, subunit 3 (130kD) (CRSP3), mRNA	AU135734 PLACE1 Homo sapiens cDNA done PLACE1002775 5	n/45h10.s1 NCI_CGAP_Pr4 Homo sepiens cDNA clane IMAGE:1043683 similar to contains PTR5.t3 PTR5	repetitive element;	Homo sapiens chromosome 21 segment HS21C006	Human mRNA for KIAA0272 gene, partial cds	Human mRNA for KIAA0272 gene, partial cds	DKFZp434D1721_r1 434 (synonym: htes3) Homo sapiens cDNA clone DKFZp434D1721 5'	7n85c11 x1 NCI_CGAP_Ov18 Homo sepiens cDNA clone IMAGE:3571221 3' similar to TR:Q9Z165 Q9Z165 PUTATIVE FOUR REPEAT ION CHANNEL.;
פוני בעכוויו	Top Hit Database Source	EST_HUMAN	TN	F	TN	LZ LZ	N FN	F	NT L	F	LN L	N-	LN LN	LN	L		ΝΤ	L	NT	N	TN	TN	NT	F	EST HUMAN		EST_HUMAN	TN	IN	LN L	EST_HUMAN	EST_HUMAN
	Top Hit Acession No.	AW816405.1	4502740 NT	11641408 NT	7662209 NT	AB033106.1	AB033106.1	11431590 NT	M38106.1	11526445 NT	AF072810.1	5453777 NT	5453777 NT	X13467.1	5729900 NT		11436514 NT	11438069 NT		AF157626.1	4505880 NT	AF056322.1	7657602 NT	7019352 NT	AU135734.1			.2	D87462.1	D87462.1	AL042439.1	BF195585.1
	Most Similar (Top) Hit BLAST E Value	_	5.0E-71	5.0E-71	5.0E-71	5.0E-71	5.0E-71	5.0E-71	5.0E-71	5.0E-71	5.0E-71	5.0E-71	5.0E-71	5.0E-71	5.0E-71		5.0E-71			I	4.0E-71	ı	4.0E-71	4.0E-71	3.0E-71			2.0E-71	2.0E-71		2.0E-71	2.0E-71
	Expression Signal	1.36	2.23	1.42	1.43	0.62	0.62	0.78	1.47	0.75	22.56	. 0.61	0.61	2.67	1.45		2.93	2.57	102.7	102.7	1.97	3.37	5.57	7:	1.41		3.38	2.02	8.24	8.24	0.55	0.64
	ORF SEQ ID NO:	29472	31508	32336	32504	30550	30551		33171	33381	33408	34251	34252		36461			_[25778			29762	30266	30404				26626	30672	30673	30543	34735
	Exan SEQ ID NO:		18581		19482					20273	20299	21114	21114	22462	23227		23581	23814	13141			17131	17654	17788	20628	10000	23285			18043	17948	21694
	Probe SEQ ID NO:	4101	9259	6564	6821	6878	6878	7048	7410	7607	7634	8421	8421	9811	10530		1990	11147	340	340	2889	4384	4926	5069	7933	,0.0,	10591	1208	5237	5237	6871	8903

Page 355 of 536 Table 4 Single Exon Probes Expressed in Brain

	Top Hit Descriptor	Homo sapiens short chain L-3-hydroxyacyl-CoA dehydrogenase precursor (HADHSC) gene, nuclear gene encoding mitro-hondrial produits and the control of the con	Homo sapiens short drain L-3-hydroxyacyl-CoA dehydrogenase precursor (HADHSC) gene, nuclear gene	bB11805.y1 NIH_MGC_10 Homo septem SDNA clone IMAGE:3048754 5' similer to SW:R23B_HUMAN	Tmul022 Human Epidermal Keratinocyte Subtraction Library- Upregulated Transcripts Homo sapiens cDNA similar to gi 6598881	Tmul022 Human Epidermal Keratinocyte Subtraction Library- Upregulated Transcripts Homo sapiens cDNA		ens cDNA clone IMAGE:154772 5'	oy15e03.s1 Soares_senescent_fibroblasts_NbHSF Home saplens cDNA clone IMAGE:120520 5		sin (LOC51616), mRNA	in 15 and complete cds	0 (pi4K230) mRNA, complete cds			th YRPW motif-like (HEYL), mRNA	A, complete cds	RNA, complete cds	Tourio saprens Sinark protein kinase Sinak mRNA, complete cds 2.15 Human Epidemial Keratinocyte Subtraction Library- Upregulated Transcripts Homo sapiens cDNA	02_15 Human Epidermal Keratinocyte Subtraction Library- Upregulated Transcripts Home cardess Chata	some 19	, exon 19	S	iens cDNA clone IMAGE:52528 5'	Homo sapiens GCN5 (general control of amino-goid synthesis weest homelon) live 2 (2011)	tial ode	
Chiga Lyon Flones Expressed in Brain		Homo sapiens short chain L-3-hydroxyacyl-Cc	Homo sapiens short chain L-3-hydroxy, encoding mitochardral L-3-hydroxy.	\top	† · · ·	 	+	Т	T =	contains LOR1 b2 LOR1 repetitive element;	Homo sapiens neuronal cell death-related protein (LOC51616), mRNA	Homo sapiens disabled-2 gene, exons 2 through 15 and complete cds	Homo sapiens phosphatldylinositol 4-kinase 230 (pi4K230) mRNA, complete cds	Homo sapiens PMS2L16 mRNA, partial cds	Homo sapiens PMS2L16 mRNA, partial cds	Homo sapiens hairy/enhancer-of-split related with YRPW motif-like (HEYL), mRNA	Homo sapiens inorganic pyrophosphatase mRNA, complete cds	Homo sapiens SNARE protein kinase SNAK mRNA, complete cds	Fruito septens SNARE protein kinase SNAK mRNA, complete cds 02_15 Human Epidemal Keratinocyte Subtraction Library- Upreguil chara 6 8 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	02 15 Human Epidermal Keratinocyte Subtraction Librar	Homo con 12 5 similar to Homo sapiens chromosome 19	inding sapients attraction precursor (ATRN) gene, exon 19	numen mKNA for KIAA0045 gene, complete cds	ymportron I soares mant brain 1NIB Homo sapiens cDNA clone IMAGE:52528 5	Homo sapiens GCN5 (general control of	Homo sapiens mRNA for KIAA0559 protein, partial cds	
ואופ רייטוו לי	Top Hit Database Source	\ L V	Į į	EST HUMAN	EST_HUMAN	HOT LIMAN	EST HUMAN	EST HIMAN		ESI HUMAN		2	- N	Z	N.		1	H	EST HUMAN	FOL	LO LO	FIN	EST HIMAN		₽	IN	
5	Top Hit Acession No.	2.0E-71 AF095703.1	1 AF095703.1	1 BE018477.1	BF149173.1	BF149173 1	Γ		,	08004	AE206800 4		T	T	74.50	AE110666 1									26182	AB011131.1 N	
	Most Similar (Top) Hit BLAST E Value		2.0E-7	2.0E-71	2.0E-71	2.0E-71	2.0E-71	2.0E-71	1 0E-74	1 0F-71	_	_			1 OF 24					1.0E-71	_					7.05-71	
	Expression Signal	3.88	3.88	3.21	1.36	1.36	2.35	8.43	1.83	2.37	6.15	11.71	138	1.38	394	2.53	5.88	5,88	0.98	0.98	2	1.92	0.98		1.07	30.00	
	ORF SEQ ID NO:	36357	36358	36524	37463		37490		26037	26351	26494	26740	27536	27537	28142	28903	28982	28983	29031	28032	29114	29801	29916	0,00	32420	32074	
	Exon SEQ ID NO:	23131	23131	23287	24151	- 1	- 1	24561	13402	13687	13836	14066	14806	14806	15407	16249	16338	16338	16392	16392	16477	17173	17287	1070	19679	19806	,
	Probe SEQ ID NO:	10485	10485	10593	11552	11552	11576	12038	623	920	1078	1317	2074	2074	2698	3493	3583	3583	3639	3639	3724	4437	4552	6643	9869	7211	

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Table 4
Single Exon Prohes Functional in Decision

Single Exon Probes Expressed in Brain	Abot Signal BLAST E No. Signal Value Source Source Top Hit Acession Value Surree	33872 0.69 1.0E-71 AF105267 1 NT	33891 2.26 1.0E-71 41425430 NT	34174 4.09 1.0E-71 8922811 NT	34175 4.09 1.0E-71 8922811 NT	34982 0.78 1.0E-71 S72393.1 NT	35752 7.89 1.0E-71 AY007643 1 NT	2.05 1.0E-71 AV761217.1	36309 1.45 1.0E-71 11433142 NT	2.58 1.0E-71 AV7612	36720 2.19 1.0E-71 11418903 NT	37037 1.73 1.0E-71 11417191 NT	1.73 1.0E-71 11417191 NT	4.96 1.0E-71 AB011399 1 NT	A1857635 1 FST HIMAN		31762 0.0E-72 AIB57635.1 EST_HUMAN	31792 0.97 8.0E-72 BF0357521 EST_HUMAN	29458 2.63 7.0E-72 4501868 NT	29459 2.63 7.0E-72 A501968 NT	N ON O	32773 2 00 7 05 72 844501 4501 856 N	1 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	4.14 6.0E-72 (1.00259.) EST HUMAN	25521 1 06 E 05 72 B522272	25522 1.06 5.0E-72 BE333707.1 EST HUMAN	25521 3.47 6.0E-72 BF333707.1 FST HIMAN	25522 3.47 6.0E-72 BF333707.1	3.62 5.0E-72 L11645.1 NT	32581 1.59 5.0E-72 AU128584.1 EST_HUMAN
-					Li		L			75	_			36			1	1				ı		2				L		
-	be Exon ID SEQID NO:		8069 2076			9128 218									398 1318	300	L	1	4092 16834	92 16834	18834	L	1	L	L	l				19551
L	SEQ ID NO:	ω̈́	ಹ	ĕό	చ	ò	ă	ති	10436	10684	5	11093	11083	12401		ř	800	3	4 6	4092	4092	7024	12520	8283			۳	9	1117	6851

Page 357 of 536 Table 4 Single Exon Probes Expressed in Brain

	Top Hit Descriptor	EST188312 HCC cell line (matastasis to liver in mouse) II Homo saplens cDNA 5' end similar to similar to FAC1	au80c03.y1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2782564 5' similar to	AV724632 HTB Homo seniens cDN4 Apra HTB4KB4 F.	MR4-BT0598-010600-005-405 RT0598 Homo seniess - CNIA	MR4-BT0598-010600-005-d05 BT0598 Homo sablens cDNA	ba08g08.y1 NIH MGC 7 Homo saplens cDNA clone IMAGE-38238n.e.5	ba08q08 vi NIH MGC 7 Homo sapiens cDNA close IMAGE-2823ans El	QV1-BT0632-280800-342-a10 BT0632 Homo septiens cDNA	Homo sapiens zinc finder protein ZFP-95 (ZFP95) mRNA alternativaly solling complete and	yd93a01.r1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:115752 5' similar to SP-A4282 A44282 RETROVIRI IS-REI ATEI DOI: DOI VOBOTEIN LILIMANI.	Homo sablens hect domain and RLD 2/HERC2) mRNA	Homo sabiens twodheifical protein F. (20758 /F). (20758). mBNA	RC3-L 70023-200100-012-dt11 T0023 Home enjane_01, in text	RC3-LT0023-200100-012-d11 LT0023 Home sapiens cDNA	qh67c02.x1 Soares_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:1849730 3' similar to	in the state of the contains the local care in the contains and repetitive element contains element L1 repetitive element;	aa23709.s1 NCI_CGAP_GCB1 Homo saplens cDNA clone IMAGE:814121 3' similar to SW:CPTR_FLAPR P49131 CHLOROPLAST TRIOSE PHOSPHATE TRANSI OCATOR PRECI IDSOR	aa2309.s1 NC_CGAP_GCB1 Home saplens cDNA clone IMAGE:814121 3' similar to SW:CPTR_FLAPR	MICRORATE Source fatel live colour ANELS House and any any and any any and any and any any and any and any and any and any and any any and any any and any any and any and any and any and any and any any and any any and any any and any and any any any and any any any and any any any any and any any and any any and any any and any any any any any and any any any any and any	Homo sablens eukarvotic translation initiation factor 2R subunit 2 hate 30km/VEIE2B31 wound	Homo sapiens eukarvotic translation initiation factor 2B, subunit 2 (beta, 30kD) (Eli 202), IIINNA	yd29d09.s1 Soares fetal liver spleen 1NFLS Homo saplens cDNA clone IMAGE-109549 31	Homo sanjens WFF1 nana for protain binasa and anatial 7NE442 ana de alas de	Homo sapiens pre-B-cell colon-venhancing factor (PBEF) mRNA	ah63a06.s1 Scares_testis_NHT Homo sapiens cDNA clone 1310290 3'
ii G	Database Source	EST HUMAN		Т	Т	HUMAN	T	HUMAN	Τ	Т	EST HUMAN S			HUMAN		σ·F	EST_HUMAN el	EST HUMAN P		Ţ	, CANOLICE	The state of the s	EST HUMAN X	I		T_HUMAN
	Top Hit Acessian Na.	AA316632.1	AW164274 1	AV724632.1	BF331571.1	BF331571.1	BE208545.1	BE208545.1	BE926645.1	AF170025.1	T87947.1	5729867 NT	8923669 NT	AW836230.1			AI248796.1	AA465388.1	4 4 4 6 5 3 8 4 1		7657057	7657057 NT	T81910.1	AJ277546.2	31976	AA723823.1
Most Similar	(Top) Hit BLAST E Value	5.0E-72	5.05.72			T		6.0E-72	6.0E-72			4.0E-72	4.0E-72	4.0E-72	4.0E-72		4.0E-72	4.0E-72	4 0F-72		4.0E-72	4.0E-72	4.0E-72	4.0E-72		3.0E-72
	Signal	0.73	3.71	0.89	3.45	3.45	1.61	1.61	2.82	0.62	0.68	2.03	1.3	0.48	0.48		0.92	1.57	1.57	7.78	1.75	1.75	2.16	8.92	69'0	1.52
	D NO:	33509	34514		37157	37158	37563	37564		30868	32230	33069	35531	36152	36153	-	36186	37210	37211	37424	37555	37556	37597	31025	25459	
Exon	ן יי	20394	21367	1	23871	23871	24240	24240	25358	18178	19229	19992	L				22967	23917	23917	L	24234	24234	24275	24822	12846	13652
Probe	SEQ ID NO:	7731	8675	9861	11208	11208	11643	11643	12107	5378	6462	6082	9684	10292	10292		10320	11255	11255	11514	11637	11637	11680	12453	18	883

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Top Hit Descriptor	Human chondroitin sulfate proteoglycan versican V0 splice-variant precursor peptide mRNA, complete cds	Human chondroith suifate protegotivean versican V0 splice-variant prevurent nentitie mBNA commists and	Human gamma-aminobutyric acid transaminase mRNA hartial cds	Human gamma-aminobutyric acid transaminase mRNA, partial cds	TCAAP1E1252 Pediatric acute myelogenous leukemia cell (FAB M1) Baylor-HGSC project=TCAA Homo seplens cDNA clone TCAAP1252	Homo sapiens 959 kb contip between AML1 and CBR1 on chromosome 21022 segment 3/3	Homo sapiens hypothetical protein FLJ20585 (FLJ20585), mRNA	TCR V delta 2-C alpha =T-cell receptor delta and C alpha fusion gene (alternatively spliced, splice junction) fruman, precursor B-cell line REH, mRNA Partial, 211 mil	Homo sapiens hypothetical protein (FL)111271 mRNA	Homo sapiens protein methyltransferase (JBP1) mRNA, complete cds	Homo sapiens protein methyltransferase (JBP1) mRNA, complete cds	wb31a08.x1 NCI_CGAP_GC6 Homo sapiens cDNA clone IMAGE:2307254.3	Homo sapiens semaphorin W (SEMAW) mRNA	Homo sapiens growth factor receptor-bound protein 10 (GRB10) gene, exon 5	Homo saplens growth factor receptor-bound protein 10 (GRB10) gane, exon 5	Homo sapiens mRNA for K/AA1081 protein, partial cds	Homo sapiens mRNA for KIAA1081 protein, partial cds	Homo sapiens ribosomal protein L3-like (RPL3L) mRNA	Homo sapiens basic transcription factor 2 p44 (btf2p44) gene, partial cds, neuronal apoptosis inhibitory	protein (natp) and survival motor neuron protein (smn) genes, complete cds	Homo sapiens nuclear receptor subfamily 1, group H, member 3 (NR1H3), mRNA	Homo sapiens S100A12 gene for Calgranulin C, exon 2 and Joined cds	Homo sapiens solute carrier family 13 (sodium-dependent dicarboxylate transporter), member 2 (SLC13A2), mRNA	601890419F1 NIH MGC 17 Homo sapiens cDNA clone IMAGE:4131461 5	601890419F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:4131461 5'	aj28b09.s1 Scares_testis_NHT Homo saplens cDNA clone 1391609 3' similar to gb:X02067 H. sapiens mRNA for 7SL RNA pseudocene HIIMAN):	Rattus norvegicus putative phosphate/phosphoenolpyruvate translocator mRNA complete cds	ai83d02.s1 Soares_parathyroid_tumor_NbHPA Homo sapiens cDNA clone IMAGE:1387395 3'
Top Hit Database Source	ΤN	TN			EST HUMAN	Τ		L.		LN LN		T HUMAN		-	LN FN		Ę					I I		EST HUMAN	Т		Τ	EST_HUMAN &
Top Hit Acession No.	U16306.1	U16306.1	J80226.1		3E242161.1	Г	8923548 NT	S77589.1	1416196	AF167572.1			59093		4F073367.1		AB029004.1	4826987 NT		180017.1	5031892 NT	(98289.1	11426671 NT	3F308560.1	2.0E-72 BF308560.1	2.0E-72 AA789277.1	F182714.1	A846225.1
Most Similar (Top) Hit BLAST E Vakue	3.0E-72	3.0E-72	3.0E-72	3.0E-72	3.0E-72	3.0E-72	3.0E-72	3.0E-72		3.0E-72	3.0E-72	3.0E-72	3.0E-72	3.0E-72	3.0E-72	3.0E-72	3.0E-72	3.0E-72		3.0E-72	3.0E-72	3.0E-72	2.0E-72	2.0E-72	2.0E-72	2.0E-72	2.0E-72	1.0E-72 A
Expression Signal	6.64	6.64	0.72	0.72	1.24	11.45	2.17	2.69	3.12	1.07	1.07	0.95	1.27	2.1	2.1	4.82	4.82	3.63		2.15	0.98	1.2	1.91	0.71	0.71	2.47	5.75	1.19
ORF SEQ ID NO:	26546			26588			28684	29186	29876	30079	30080	30215		31621	31622	31819	31820	32284	0,000	33249	33898	36198	31597	34832	34833	36569	31022	27527
Exon SEQ ID NO:	13888		13925	13925	14256	15838	16034	16555	17243	17447	17447	17591	18232	18676	18676	18853		19281	36	/6107	20769	22978	18656	21683	21683	23331	24819	14800
Probe SEQ ID NO:	1132	1132	1171	1171	1510	3072	3273	3803	4508	4715	4715	4862	5433	5891	5891	6074	6074	6516	7406	/483	8075	10331	5869	8993	8993	10640	12449	2068

Page 359 of 536 Table 4 Single Exon Probes Expressed in Brain

			_			_	-	_	_	_											_	_	_	_		_						
	Top Hit Descriptor	Homo saniane verninjer aradin andi- 44 /	Home capters recorded process soung 4 (Vests nomolog) (VPS41), mRNA	Homo septents mycsin, neavy polypeptide 13, skeletal muscle (MYH13), mRNA	AVZE1818 NIDE LITTURE IN THE RESERVENCE TO SKENETH THE CONTRACTOR OF THE PROPERTY OF THE PROPE	DCA UTBESO 472020 A.C. A.C. LEGERS CON A CIONE NPDAIE11 5'	NO4FITUS/S-170300-012-902 H 105/8 Homo sapiens cDNA	Home contact contact and the contact of the contact	Transcription Synthytic Dycoprotein SCZ (SCZ) mRNA, complete cds	MRD-CT0083-074000 002 544 CT2020 11 MRNA, complete cds	Homo sapiens ribosomal profelo 1/3a (RP) 434 / mPNA	ws55006.x1 NCI_CGAP The State of the State o	Homo sapiens phosphatth/linestial 3 kings along a line	Homo sapiens hearing handen (1 OCE2454)	Homo saniens vaccivite ATDece indeed (LOCS/191), mKNA	Trains agricus vacuolal A if ase isolorm VA68 mKNA, complete cds	bb62a06.y1 NIH_MGC_9 Homo saplens cDNA clone IMAGE:3030034 5' similar to gb:X04098_cds1 ACTIN, CYTOPI ASMIC 9 HI INANN: abanasa ace N	Homo sablens interfacility 19 recents: 1450 Microse cytoskeletal gamma-actin mRNA, complete cds (MOUSE);	Homo sapiens interfacility 12 recentury beta 1 (LTZKB1), mKNA	Homo saplens transition protein 1 (during historic formulas and many many	Homo saplens DEAD-box profein (HAGE) mRNA	Homo saplens thyroid autoantigen 70kD (Ku antigen) (G22P1) mRNA	Homo sapiens hypothetical protein FLJ20309 (FLJ20309), mRNA	Homo sapiens chromosome 21 segment HS21C006	Homo saplens chromosome 21 segment HS21C082	Homo saplens chromosome 21 segment HS21C018	QV0-HT0494-020300-137-403 HT0494 Homo saplens cDNA	Homo sapiens HELG protein (FAMAA1) mRNA	CM0-CN0044-260100-164-f08 CN0044 Home septens cDNA	zn95e04.s1 Stratagene fetal retina 937202 Homo sapiens cDNA clone IMAGE:565950 3' similar to	AV729428 HTC Home saviens of the Alana LITCA A 6074 61	AV729428 HTC Homo sapiens cDNA clone HTCAAF071 5
200	Top Hit Database Source	ΕN	LN.	Į.	EST HIMAN	EST HIMAN	EST HIMAN	TN	FIZ	HIMAN		EST HUMAN					EST HUMAN							NT	±N.		EST_HUMAN		EST_HUMAN	EST HIMAN	Т	П
	Top Hit Acession No.	7657676 NT	11321578 NT	11321578 NT	72 AV751818 1	72 BF175434 1	72 BE175434.1	AF222742.1	AF222742 4	73 AW374968.1	11424099 NT	8.0E-73 AW071755.1	4505798 NT	11426469INT	8.0E-73 AF113129.1		3 BE019900.1	56037	11526037 NT	4507628 NT	11418786 NT	11418189 NT	23290	3 AL163206.2			BE166574.1	11422159 NT	AW843789.1	AA136403.1		П
	Most Similar (Top) Hit BLAST E Value	1.0E-72		1.0E-72	1.0E-72	1.0E-72	1.0E-72	1.0E-72	1.0F-72	9.0E-73	9.0E-73	8.0E-73	8.0E-73	8.0E-73	8.0E-73		8.0E-73	8.0E-73	8.0E-73	8.0E-73	8.0E-73	8.0E-73	7.0E-73	7.0E-73 A	7.0E-73 A	6.0E-73 A		4.0E-73		3.0E-73		3.0E-73 A
	Expression Signal	3.63	1.31	1.31	1,2	3.7	3.7	10.25	10.25	1.35	15.11	2.29	-	5.16	2.87		6.25	1.92	1.92	0.45	1.28	3.31	0.89	1.18	1.35	3.07	3.48	2.2	2.77	0.71	0.65	0.65
	ORF SEQ ID NO:	31390	32231	32232			l	35324	35325	26875		26434	31190	32245	33817		35105	35484	35485	36379	37488	31012	26528	28705			32827	30497	26741	32374	34492	34493
	Exon SEQ ID NO:				25093				22144	14191	23551		IJ	19245	20689		21932	22282	1 1		J	- 1	13869	900	17618	12969	19763	17982	14067	19361	21348	21348
	Probe SEQ ID NO:	5680	6464	6464	6536	7537	7537	9491	9491	1444	10871	1015	5493	6478	7994		9253	9640	9640	10507	11573	12506	21.17	2535	£	Z .	/0/2	5173	1318	6598	8656	8656

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Single Exon Probes Expressed in Brain	Top Hit Descriptor	OUT TOO ME TOBY SALL	Hamo sapiens chromosome 21 segment Devices	RC3-NN0066-270400-01104 NN0068 Home continue CDNA	Homo sepiens BASS1 (RASS1) mRNA partial ada	RC3-NN0066-270400-011-004 NN0068 Home genions CDNA	Human beta alobin region on chromosome 11	Homo sapiens caspase 8, apoptosis-related cysteine professe (CASPR) mRNA	Homo saplens Parkinson disease (autosomal recessive, juvenile) 2, parkin (PARK2), transcript variant 3, mRNA	Homo sapiens Parkinson disease (autosomal recessive, Juvenile) 2, parkin (PARK2), transcript variant 3, mRNA	Homo sablens chromosome 24 comment LIC 24 Com	Mus musculus ripologi interaction distractions	Mus musculus rhotes hereafter either the control of	Home seniens mRNA for KIA 11601 protein and 12 -	Homo sabiens interferikin 4 recentor (II 4B) mRNA	Homo septens interferible 4 receptor (II 48) mBNA	Human perioheral myelin prohain 22 mRNA complete ada	Homo saplens mRNA for KIAA 1320 profets months and	Gallus gallus Dach2 brotein (Dach2) mRNA complete ade	Gallus gallus Dach2 protein (Dach2) mRNA complete cds	Homo sapiens glutathione synthetise (GSS) mRNA	Homo capiens supervillin (SVIL), transcript variant 1, mRNA	Homo sapiens supervillin (SVIL), transcript variant 1 mRNA	Homo sapiens galactosylceramidase (Krabbe disease) (GALC) mRNA	Homo sapiens galactosylceramidase (Krabbe disease) (GAI C) mRNA	Homo sapiens mRNA for KIAA1059 protein partial cds	RC3-NN0066-270400-011-c04 NN0066 Homo saplens cDNA	AU121585 MAMMA1 Homo sapiens cDNA clone MAMMA1000490 5	Gallus gallus Dach2 protein (Dach2) mRNA, complete cds	CM1-HT0282-111199-042-h10 HT0282 Hamo saplens cDNA	qg61b07.r1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1839637 5' similar to contains element MER22 repetitive element	601276071F1 NIH_MGC_20 Homo saplens cDNA clone IMAGE:3617105 5
gle Exon Pro	Top Hit Database Source	EST HIMAN	L	EST HUMAN	NT L	EST HUMAN	N	H	Ŋ	<u> </u>	LN	LN	FZ	LZ		¥	F	N	LZ L	NT	F	Ę	Þ	5		Į.	EST_HUMAN	EST_HUMAN		EST_HUMAN		EST_HUMAN
Sin	Top Hit Acession No.	3.0E-73 A1004040.1	3.0E-73 AL 163246.2	-73 AW 898081.1			-73 U01317.1	4502582 NT	7669539 NT	7669539 NT	-73 AL163283.2				31471	11431471 NT	73 M94048.1	-			34168	11496980 NT	11496980 NT	4557612 NT	4557812 NT	73 AB028982.1	73 AW898081.1			73 BE151283.1	73 A1147427.1	
	Most Similar (Top) Hit BLAST E Value	3.0E-73	3.0E-73	3.0E-73	2.0E-73	2.0E-73	2.0E-73	2.0E-73	2.0E-73	2.0E-73	2.0E-73	2.0E-73	2.0E-73/	2.0E-73	2.0E-73	2.0E-73	2.0E-73	2.0E-73	2.0E-73/	2.0E-73	2.0E-73	2.0E-73	2.0E-73	2.0E-73	2.0E-73	2.0E-73	2.0E-73 A			1.0E-73 B	1.0E-73	1.0E-73 B
	Expression Signal	1.51	1.5	1.54	1.43	1.78	1.3	3.99	0.91	0.91	1.03	0.89	0.89	6.27	1.27	1.27	0.69	0.73	0.52	0.52	1.21	1.31	1.31	3.37	3.37	1.82	1.83	1.71	1.12	1.07	1.37	2.95
	ORF SEQ ID NO:				26271			28590	28943	28944		32102	32103	32159	32378	32377	33476	33478	35284	35285	36189	36257	36258	36917	36918	36955		27221	27946	32015	35230	36426
	Exen SEQ ID NO:	24209		25005		1		15940	16294	16294	17138	19114	19114	19158	19363	19363	20382	20364	22110	22110	22969	23040	23040	23662	23662	23692	14674	14518	15205	1933	22061	23195
	Probe SEQ ID NO:	11611	12734	12738	831	1839	2288	3177	3538	3538	4401	6344	6344	6388	9800	9800	7699	7701	9432	9432	10322	10394	10394	10987	10987	11020	12293	1776	2488	.6266	9399	11428

Page 361 of 536 Table 4 Single Exon Probes Expressed in Brain

	Top Hit Descriptor	Homo sapiens CD39-like 4 (CD3014) mBNA	Ce2+(celtradulin-denesdent anxieta kinaca IV kinaca I	Ce2+/celmodulin-dependent protein binase IV kinase Isotorm (rats, brain, mKNA, 3429 nt)	W46a10 s1 Spares fatal liver spleen 1NEI S Home continue and A 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Homo sablens NKG2D gene expert 10	Homo saniens chromosome 21 soument UC21/C24	801849284F1 NIH MGC 73 Homo seniers of NA Act act NA OF account	801191927F1 NIH MGC 7 Homo septens CDNA clone IMAGE 36359675	Homo saplens S164 gene, partial cds; PS1 and hypothetical protein genes, complete cds; and S171 gene,	S0128363151 NIH MCC 44 Uses collision of the collision of	60128351F1 NIH MCC 44 Home control on the control of the control o	U-H-Bio-agh-h-03-0-11 s1 NCI CGAP Silvid Home confirm of the confirmation of the confi	U-H-Blocah-h-03-0111 c1 NCI OGAP 6:14 15:20	hr54e11.x1 NCI CGAP Kid11 Homo semiens chNA Apre MAACE:2409365 3	ht54e11.x1 NCI CGAP Kid11 Homo saniens cDNA clone IMA CE:3132322.3	Homo sapiens actin filament associated protein (AEAD) TONA	df17c09.y1 Morton Fetal Cochlea Homo saniens cONA class (MACE 2469724 5)	PMQ-CT0289-27/099-001-h07 CT0289 Home senione control light CL. (+557/04-5)	Homo saplens phosphatidylinosito alvoan class I (PIGI) mRNA	H.sapiens mRNA for TPCR16 protein	Homo sepiens VAMP (vesicle-associated membrane protein)-associated protein A (33kD) (VAPA) mRNA, and translated products	Homo saplens interleukin 4 recentor (II 4R) mBNA	Homo saplens interleukin 4 receptor (IL4R) mRNA	Homo saplens KIAA0716 gene product (KIAA0716) mRNA	Homo sapiens KIAA0716 gene product (KIAA0716), minny	Homo sapiens hypothetical protein FI. J13222 (FI. 113222), mBNA	H. sapiens mRNA for HIP-I	H. sapiens mRNA for HIP-I	Homo sanjens cell adhesim molecule with homotoxy to 140 xxx / 1	Homo sapiens DNA for emylaid prectition protein complete and	Homo sapiens mRNA for KIAA1019 protein, partial ods
	Top Hit Database Source	ΔŢ	Z	Z	HUMAN	Т		HUMAN	Г	\Box	HIMAN	Т	Т	Т	T	Г		EST HUMAN	Г		Ł							Ł	- LV			
	Top Hit Acession No.	4557426 NT	74 S83194.1	74 S83194.1	74 N52239.1	74 AJ001689.1	74 AL163246.2	74 BE967432.1	74 BE266305.1	74 AF109907 1	74 BE388260.1	74 BE388260.1	74 AW014039.1	74 AW 014039 1	4 BE048846.1	4 BE048846.1	8013	74 AW020986.1	74 AW362756.1	11425417 NT		4507866 NT	11431471 NT	11431471 NT	7662263 NT	7662263 NT	11345483 NT	4 Y09420.1	4 Y09420.1	5729766 NT	4 D87675.1	4 AB028942.1
	Most Similar (Top) Hit BLAST E Value	8.0E-74	8.0E-74	8.0E-74	8.0E-74	7.0E-74	7.0E-74		11.	6 0F-74	6.0E-74	6.0E-74	6.0E-74	6.0E-74	6.0E-74	6.0E-74	6.0E-74	6.0E-74 /	5.0E-74	6.0E-74 11	5.0E-74 >	5.0E-74	5.0E-74	5.0E-74	5.0E-74	5.0E-74	5.0E-74	5.0E-74 Y	5.0E-74 Y	5.0E-74	4.0E-74 D	4.0E-74 A
	Expression Signal	1.06	2.2	2.2	1.36	2.59	1.08	2.83	5.51	2.4	11.78	11.78	1.32	1.32	1.34	1.34	3.02	7.33	2.62	1.86	12.98	7.41	1.84	1.84	5.98	9.0	2.78	2.56	2.56	2.68	1.79	5.15
	ORF SEQ ID NO:			31545		27390				26518		27777			29092	29093	30744	26322		30784	31419	31462	31536	31537	32567	32567	33758	36565	36566	36687	25723	26272
	Exon SEQ ID NO:								24858	13858	15039	15039	15634	15634	16453	16453	18086	13654	15413	18125	18497	18540	18608	18608	19539	19539	20631	23328	23328	23442	13080	13602
L	Probe SEQ ID NO:	723	5824	5824	10791	1942	3322	9142	12505	1100	2314	2314	2867	2867	3700	3700	5281	88	2706	5322	5703	5748	5819	5819	6795	7569	7936	10636	10636	10757	273	832

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Table 4

		RCTL4 genes,	RCTL4 genes,											e/enoyl-Coenzyme A	a/enoyl-Coenzyme A		vrotein L37			one HHCPF91				SW:GG95_HUMAN	-p) oncogene	-b) oncogene			
Single Exon Probes Expressed in Brain	Top Hit Descriptor	Homo sapiens DNA, DLEC1 to ORCTL4 gene region, section 1/2 (DLEC1, ORCTL3, ORCTL4 genes, complete cds)	Homo saplens DNA, DLEC1 to ORCTL4 gene region, section 1/2 (DLEC1, ORCTL3, ORCTL4 genes, complete crts)	Homo sapiens professome (prosome macronath) submit both hos 4 (postate)	Homo sapiens proteasome (prosome macmoain) subjuilt heta han 4 (DEVIDA) - DATA	Homo sapiens mRNA for KIAA1168 protein, partial cds	Homo sapiens PLP gene	Homo sapiens PLP gene	Homo sepiens chromosome 21 segment UC21 Coto	Homo satiens chomosome 24 segment 1921/2017	Homo coniono VIA A 0560	Homo serient mBNA 6-1-1-1	Home seriens further of transmentation protein	indring septents Trydroxydcyr-Coenzyme A dehydrogenase/3-ketoacyl-Coenzyme A thiolase/enoyl-Coenzyme A hydratase (trifunctional protein), beta subunit (HADHR) mRNA	Homo sapiens hydroxyacyi-Coenzyme A dehydrogenase/3-ketoecyi-Coenzyme A thiolase/enoyi-Coenzyme A	Figuratese (ununcuonal protein), beta subunit (HADHB) mRNA	COLLOS I Myrius tumor III Homo sapiens cDNA 5' end similar to similar to ribosomal protein L37	Homo sapiens actin-related protein 3-beta (ARP3BETA), mRNA	EST01132 Subtracted Hinnoramnie Strotones (Act #000000)	no17g05.s1 NCI CGAP Phet Homo sariens CNN class (MACE 44,0000)	Homo sapiens divograldehinde 3-phosphate dehidiococci. (AABB)	Homo sapiens divorationaries - Saposahata deliversamento (OAFD), minna	Human endogenous retrovirus HERV-K-T47D	wx51e07.x1 NCI_CGAP_Lu28 Homo sepiens cDNA clone IMAGE:2547204 3' similar to SW:GG95_HUMAN Q08379 GOLGIN-95, contains element MFR22 conditions olement	Homo sapiens epidermal growth factor receptor (avian erythroblastic leukemia viral (v-erb-b) oncogene homolog) (EGFR) mRNA	Homo sepiens epidernal growth factor receptor (avian erythroblastic leukemia viral (v-erb-b) oncogene	PT2.1.15 G11.thmor2.Home series only 2	Novel human gene manoing to chomosome 22	Novel human gene mapping to chomosome 22
gle Exon Pro	Top Hit Database Source	ΤN	ΙV	Z	F	LN	L	ΙN	IN	LZ LZ	Į.	FZ PZ		·		EST HIMAN	-¶.	Ł	EST HUMAN	EST HUMAN	NT	Į.	N	EST_HUMAN	þ	 	EST HUMAN	NT	۲
Sin	Top Hit Acession No.	4 AB026898.1	4 AB026898.1	4506192 NT	4508192 NT	4.0E-74 AB032994.1	AJ006976.1	AJ006976.1	4 AL163210.2	AL 163247.2	7682183 NT	217227.1		4504326 NT	TIV SCOVOSA	AA300378 1		9866912 NT	M78984.1	AA601493.1	7669491	7669491 NT	AF020092.1	Al950528.1	4885198 NT	4885198 NT	AI557280.1	Π	AL355092.1
	Most Similar (Top) Hit BLAST E Value	4.0E-74	4.0E-74	4.0E-74	4.0E-74	4.0E-74	4.0E-74	4.0E-74	4.0E-74	4.0E-74	4.0E-74		_	4.0E-74	4 0F-74	_		3.0E-/4	3.0E-74	3.0E-74 /	2.0E-74	2.0E-74	2.0E-74	2.0E-74	2.0E-74	2.0E-74		2.0E-74 A	2.0E-74 A
	Expression Signal	2.02	2.02	2.75	2.75	1.99	27.23	5.2	0.82	1.03	2.23	0.88		96.0	96.0	8.45	07.0	9/3	2.99	2.68	175.01	175.01	1.11	1.36	3.79	3.79	0.94	2.44	2.44
	ORF SEQ ID NO:	27403	27404	27523	27524	27589	27882	28495	28928	29414	29889	29937		30343	30344	-	34300	202	35196	36099	26370	26371	26570	26644	27024	27025	28063	30281	30282
	Exon SEQ ID NO:	14690	14690		1	14859	15148	- 1	- 1	16786	17255	17308		17736	17738	21140	21165		22026	22885	13705	13705	13907	13972	14336	14336	15321	17672	17672
	Probe SEQ ID NO:	1955	1955	2065	2065	2128	2427	3088	3518	4041	4520	4573		5015	5015	8448	8473		9272	10237	828	938	1152	1222	1590	1590	2609	4945	4945

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				_	_	_	_	_	_	-		_		_		-,	_	_,		_,							_							_	
Single Exon Probes Expressed in Brain	Top Hit Descriptor	Himan platelat alumentary in mDNA of	ROBERTORS 220500 044 Cos Utacas II	Homo sapiens PDZ-73 proder (PDZ 73/N/V CO 26) PA/A	Homo sapiens PDZ-73 protein (PDZ-73/NV-CO 39) BNA	Homo sapiens PDZ-73 protein (PDZ-73/NV-CO-38) mRNA	Homo sapiens PDZ-73 protein (PDZ-73/NV-CO-38) month	601557524F1 NIH MGC 58 Homo sapiens cDNA clone IMAGE 3827549 デ	Homo saplens mRNA for KIAA1395 protein nartial cds	Homo sapiens chromosome 21 segment HS21Cn04	2096a06.s/ Stratagene mische 207700 Home emische 201700 Home emisc	Homo segiens Misshapen/MIK-related times / Allinix - EDNA	QV4.ST0234-181199-037-705 ST0234 Home series chiva	Homo sapiens hypothetical protein F1.111026/F1.111028 mbn/A	Homo saplens beta 2 gene	Homo sabiens zinc finger protein 259 (ZNE256) mPMA	Homo sapiens mRNA for KIAA0833 protein partiel ade	Homo saniens chromosome 21 segment HS240AA	Homo sablens DNA for Himan DOWN complete cate	Homo sablens mannosidase alaka class 34 momenta (114) months	260001.1 Soares NhHMPI S1 Home serious DNA Act 1 (AACT 007770 F	Z60c01.r1 Soares NhHMPI S1 Home septems color clone investigate in	Homo saplens diutamate receptor, ignotropic, kaipate 1 (GRIK4) mBNA	Homo sapiens glutamate receptor innohonic kaipate 1 (GBIX1) mbNA	Homo saplens chromosome 21 segment HS21 CORR	RC2-BT0642-270300-019-f06 BT0642 Home seniens c-DNA	Human neurofibromin (NE1) gene complete ade	Homo saplens KIAA0852 pm/ein (KIAA0852) mpNA	601070088F1 NIH MGC 12 Homo saniers cDNA clans 17/4 CE 34 ESSO E1	601070088F1 NIH MGC 12 Homo sapiens CDNA clone IMA GE 3458280 5	Homo saplens trached epithelium enriched protein (PI I III) same annual de control de co	MR0-HT0559-230500-021-a03 HT0559 Home saniers cDNA	Homo sapiens partial AK155 gene for AK155 protein, exms 1.3 and Julied Che	Homo sapiens partial AK155 gene for AK155 protein, exons 1.3 and Inhed ChS	Homo sapiens hypothetical protein FLJ10783 (FLJ10783), mRNA
gle Exon Pro	Top Hit Database Source	5	EST HIMAN		Þ	Þ	Ę	EST_HUMAN	Ę	LN.	EST HUMAN	F	EST HUMAN	Ę	Į.	5	Į.	Ł	L	1	EST HUMAN	EST HUMAN	 -	5	TN	EST_HUMAN	L	5	EST HUMAN	EST_HUMAN	LN LN	T HUMAN		IN	
Sin	Top Hit Acession No.	74 J02963 1	1,4	11439587 NT		11439587 NT	11439587	74 BF030788.1	74 AB037816.1	74 AL163204.2		7334	74 AW816405.1	2829	74 X02344.1	4508020	74 AB020640.1	74 AL163246.2		8697	74 AA258549.1		4116	4504116 NT		'4 BE083080.1 E	74 M89914.1	17977	4 BE549105.1		4 AF214562.1	4 BF351951.1 E	4 AJ251550.1	74 AJ251550.1 N	11420549 NT
	Most Similar (Top) Hit BLAST E Value	2.0E-74	2.0E-74		2.0E-74	2.0E-74	2.0E-74	2.0E-74	2.0E-74	2.0E-74	2.0E-74	1.0E-74	1.0E-74			1.0E-74	1.0E-74 /	1.0E-74 /	1.0E-74 /	1.0E-74	1.0E-74 /	1.0E-74 /	1.0E-74	1.0E-74	1.0E-74 /	1.0E-74	1.0E-74 N	1.0E-74	1.0E-74	1.0E-74	1.0E-74 4	1.0E-74 E	1.0E-74	1.0E-74 A	1.0E-74
	Expression Signal	1.11	2.5	1.89	1.89	2.78	2.78	0.92	1.29	90.9	3.95	1.89	5.02	1.05	13.6	1.47	1.81	2.27	4.39	3.55	6.0	6.0	0.86	0.86	4.81	1.15	1.86	1.15	1.13	1.13	4.92	99'0	0.55	0.55	1.38
	ORF SEQ .ID NO:	30286	31424	31521	31522	31521			33663	35208		25509	25764	25907	25912	25995	26197	26406	27690	28545	28782	28783	29292	29293	29338	29415	32380	33291	33773	33774	34543	34571	36001	36002	36241
	Exen SEQ ID NO:	17676	25074	25077		- 1	25077	19695	20536	22036	24687	12881	13129	13272	13277	13367	13538	13744	14951	15900	16125	16125	16651	16651	16700	16787	19368	20197	20650	20650	21396	21425	22788	22788	23026
	Probe SEQ ID NO:	4949	5709	5806	5806	5876	5876	7003	7841	9282	12234	52	328	487	493	287	765	978	2223	3136	3368	3366	390	3901	3920	4042	9805	7526	7955	7955	8704	8733	1946	1946	10380

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Table 4
Single Exon Probes Expressed in B-

			T	T	T	Ţ	_	T		4	T	1	٦	7		Γ	Ţ		,		Γ	Γ	Γ	Γ	Γ		Γ		Γ	Γ		T	T	Т	ŢŢ	Γ
Single Exon Probes Expressed in Brain	Top Hit Descriptor		Homo sapiens glutathione S-transferase theta 2 (GSTT2), mRNA	Homo sapiens glutathione S-transferase theta 2 (GSTT2), mRNA	Homo sepiens DNA for Human P2XM, complete cds	Homo sepiens glutathlone S-transferase theta 2 (GSTT2) and glutathione S-transferase theta 1 (GSTT4)	genes, complete cds	Homo sapiens DNA cytosine-5 methyltransferase 3B (DNMT3B) mRNA, complete cits	Inomo septens chromosome 21 segment HS21C002 wk38a08.x1 NCI CGAP Pr22 Homo sentiens cDNA class and the contraction of the contr	RETROVIRUS-RELATED POL POLYPROTEIN (HUMAN)	nk99d03.s1 NCI_CGAP_Co3 Homo sapiens cDNA clone IMAGE:1028933.3	nk99d03.s1 NCI_CGAP_Co3 Homo sapiens cDNA clone IMA CE-1028co2 2	601126068F1 NIH MGC 9 Homo saciens cDNA clone IMA CE cosposes FI	2017e08.r1 Strategene colon (#937204) Homo saniem only April 14.55	601346909F1 NIH MGC 8 Home capital adheres contact along in MGE:587174 5	601346909E1 NIH MCC 6 Line Sapara Colled MAGE:3687458 5	S0218646T4 MILL ALCO 4211	tt31c12.x1 NCI CGAP GC6 Home capiens cDNA clone IMAGE:4298738 3'	HYPOTHETICAL 20.1 KD PROTEIN	QV1-BT0632-210200-079-602 BT0632 Home Sanions - 2014	W30h08.11 Scares melenced anti-time squares colling	CMO-NNON57-150400 225 244 NNOSF-11	601303868F1 NIH MOO 34 U	Homo seplens handheite and in 1427.7.	Homo sepiens NIPSNAD C election (FLU10747), mRNA	Homo sapiens NIPSNAP C elegans homeles (All Doctors)	Homo saplens eukannth translogans, minde a (Mr. Shah I), mkhA	Homo saplens NIPSNAP, C. alexans, home 14 American Subunit 8 (110kD) (EIF3S8), mRNA	Homo sepiens NIPSNAP C. elegans, homelogy I (NIPSNAPT), mRNA	Homo septens myosin, heavy polypopulate 1 circles 1	Homo sapiens HTRA serine andesed (DBSC).	Jomo saniens HTRA series and series (ABOO) / gene, complete ods	Homo sapiene m RNA fer k14 Angest	Homo sepiens synantianin 4 78 W 147 - Partial cds	Homo sepiens syneptosomel-essociated protein 28kD (SNAP20) mbn.v	WIND COLONIA C
igle Exon Pro	Top Hit Database Source		LN	Z	ž	H	Ę	2		EST_HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST HUMAN	1	1	Т	T		EST_HUMAN	EST HUMAN	Т	Т								± E	Ę	Į.			
ซึ่	Top Hit Acesslan No.			1 0E-74 AB0000E0 4	ABOOZO39, I	4 AF240786 1	5 AF178228 4	8 0F-75 Al 183202 2	- 100 EUE	5 AI81 /415.1	5.0E-73 AA5/3446.1	9.0E-73 AA5/3446.1				BE561655.1	BF690254.1			1.		AW897230.1	BE409464.1	8922837 NT	11417946 NT	11417948 NT	5579457 NT	11417946 NT	11417946 NT	7669505 NT	AF157623.1	AF157623.1	AB011153.1 N	7334	4759153 NT	
	Most Similar (Top) Hit BLASTE Value	4 OF 74	1.0E-74	1 0E-74	1	1.0E-74	8.0E-75	8 0F.75		0.0E-/5	5.0E-73	0.05-73	3.0E-75	5.0E-75	5.0E-75	5.0E-75	5.0E-75		5.0E-75	4.0E-75 E	4.0E-75 N	4.0E-75	4.0E-75	4.0E-75	4.0E-75	4.0E-75	4.0E-75	4.0E-75	4.0E-75	4.0E-75				3.0E-75	3.0E-75	
	Expression Signal	283	5.02	1.58		1.53	3.68	1.86	,	1,1	200	200	76.0	0 0	0.78	0.78	1.53		2.39	2.16	1.02	1.5	4.89	0.94	0.56	0.56	5.78	2.26	2.28	18.12	3.72	2.41	2.76	1.11	5.86	
	ORF SEQ ID NO:	37800		27690					27784	33466	33467	34843	34855	24048	04540	34947	35197	00000	25893	22200		27202	28266	28902	31128	31128	07816	32436	32437	71000	E0+07	26409	27279	27570	27876	
	Exon SEQ ID NO:	24458				_ 1	- 1	24700	15044	ı	20352	21498	21705	21785	207.00	7 107	22027	22782	1282	13030	26.36	1926	13621	10248	18241	18050	3 5	12461	22020	497/7	10141	13/4/	1436/	14836	15143	
	Probe SEQ ID NO:	11885	11965	12103		12567	2650	12254	2319	7688	7688	8806	9015	8083	9003		8773	10134	9	448	2	807	3 5	2487	7 27	8178	6884	2 68	10584	5 6	2000	365	878	2002	7747	
																																		_		

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Table 4

Single Exon Probes Expressed in Brain	Table Diff. D.			Homo sapiens chranosame 21 segment HS21C001	Homo sapiens mRNA for KIAA0581 protein, partial cds	Human calcium-dependent phospholipid-binding protein (PLA2) mRNA complete cde	Human calcium-dependent phospholipid-binding protein (PLA2) mRNA complete cds	Homo sapiens DNA for amyloid precursor protein, complete cds	Homo sapiens KIAA0971 protein (KIAA0971), mRNA	Homo sapiens adaptor-related protein complex 1, sigma 2 subunit (AP1S2), mRNA	nurro septens adaptor-related protein complex 1, sigma 2 subunit (AP1S2), mRNA	Homo sapiens HIR (histone cell cycle regulation defective, S. cerevisiae) homolog A (HIRA), mRNA	Home contact III ALL III	Home septens mix (filstone cell cycle regulation defective, S. cerevisiae) homolog A (HIRA), mRNA	Dono sapiens MAN023 gene product (KIAA0623), mRNA	romo sapiens KIAA0623 gene product (KIAA0623), mRNA	Homo sapiens Oncogene TIM (TIM) mRNA	Hamo sapiens Oncogene TIM (TIM) mRNA	Homo sapiens snail 1 (drosophila homolog), zinc finger protein (SNAI1), mRNA	Homo sapiens Drosophila Kelch like protein (DKELCHL), mRNA	Homo sapiens synuclein, alpha (non A4 component of amyloid precursor) (SNCA) mRNA	AV734680 cdA Homo saplens cDNA clone cdABED02 5'	qo91e02.x1 NCI_CGAP_Kid5 Homo sapiens cDNA clone IMAGE:1915898 3' similar to TR:Q69386 Q69386 POI JENV GENE	Omo sapiens propie through the series of the	Homo seriens protein transfer procedures, receptor-type, zeta polypeptide 1 (PTPRZ1) mRNA	Section of the Carlot of the Prosphatase, receptor-type, zeta polypeptide 1 (PTPRZ1) mRNA x860402.x1 NCI CGAP_Ut4 Homo sapiens cDNA clone IMAGE:2632707 3 similar to contains PTR2 H	r Inv. Jeponave element;	rt.saptens ErCC2 gene, exons 1 & 2 (partial) zt57h03.s1 Soares_testis_NHT Homo saplens cDNA clone IMAGE-728488 ?' -	RIBOSOMAL PROTEIN S17 (HUMAN);	601900294F1 NIH_MGC_19 Hamo sapiens cDNA clone IMAGE:4129678 5	601900294F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4129678 57	ec./ rolds.s.i Stratagene lung (#937210) Homo sapiens cDNA clone IMAGE:868599.3' Homo sapiens calcium channel alpha1E subunit (CACNA1E) gene, exons 7.49, and periol cless allowed	mer co, dienieuraly
gle Exon Pro	Top Hit Database	Source	1	N I	Z	- N	Z	Z	2 1	E		Ę										EST_HUMAN /	EST HUMAN			1	NEWOL -		٦	T	EST_HUMAN 6	NAMOL I	
ig	Top Hit Acession No.		75 01 463204 2	3.0E-75 AB0444524	75 M72302 4	75 8472202 4		7000101	144200E0 NIT	11420956 NT		11526319 NT	11526319 NT	7662209INT	TR62200	4885632 NIT	700000-	4885632 NT	11420804 N	11420222 NT	35	0 AV / 34060.1		06328	4506328 NT	AW168135 1			AASSSZ/U.1		\int		IN IN
	Most Similar (Top) Hit BLAST E	Value	3 0E-75	3.0E-75	3.0E-75	3 0E-75	3.0E-75	3.0E-75	3.0E-75	3.0E-75	1	3.0E-/5	3.0E-75	3.0E-75	3.0E-75	3.0E-75	2000	200-70	30575	3.0E-73	200-75	4.0E-73	2.0E-75 AI311783.1	1.0E-75	1.0E-75	1.0E-75	1.0E-75 X	10 4		1 0E-75 B	10E-75 A	1 0F-75 AF	
	Expression Signal		0.97	132	0.75	0.75	327	0.73	0.83	0.83	6	8	1.68	4.56	4.56	262	2 52	1 21	0.77	80.0	1 41		2.45	1.12	1.12	6.68	3.27	4 27	3.75	3.75	10.83	2.56	
	ORF SEQ ID NO:	<u> </u>	28434	28597				29769	30493	30494	30803	2020	32624	32783	32784	33284	33285	34717	35414	36314		-	34484	27539	27540	27762	28366		35167	35168		36972	
	SEQ ID		15787	15947		16104		L	17980	17980	19588		19588	. 1	- 1	- 1	20193			1	18384		21340	14808	14808	15028	15713	21006	21995	21995	23480	23704	
	Probe SEQ ID NO:		3021	3184	3345	3346	4147	4404	5171	5171	6671		6671	7035	7035	7522	7522	8883	9577	10440	5587		8648	8/8/8	8/8/	2301	2947	8313	9328	9328	10797	11033	

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					Sin	igle Exon Pro	Single Exon Probes Expressed in Brain
Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession	Top Hit Database Source	Top Hit Descriptor
11860	0 24444	37785	1.38		1.0E-75 AA417112 1	TOT UTANA	
12152	2 17912	Ш	1.64		1.0E-75 BE894192.1	EST HIMAN	R01437430E4 NILL 1905 To 1
43	3 12872	25493	1.24	9.0E-76	9.0E-76 A1652648.1	EST HIMAN	#550510.50 MIT_MISC. / 2 Homo saplens cDNA clone IMAGE:3922303 5' wb30b10.x1 NCI_CGAP_GC6 Homo saplens cDNA clone IMAGE:2307163 3' similar to TR:075236 075236 TRAD4.
43	12872	25494	1.24	9.0F.78	76 AI652648 1		wb30b10.x1 NCI_CGAP_GC6 Homo sapiens cDNA clone IMAGE:2307163 3' similar to TR-075235 C75235
9801	Щ	35654	43.62	9.0E-76	9.0E-76 M12837 1	NE TOWN	1KAP7;
917		26347	1.06	8.0E-76	4504374 NT	ž Ž	Truman remum Heavy subunit mRNA, complete cds
917	_[26348	1.06	8.0E-76		Z	Homo saplens H factor 1 (complement) (HF1) mRNA
2910	_[28325	₹	8.0E-76		LZ.	Homo sanione mariety (Camplement) (HF1) mRNA
6079		31825	6.36	8.0E-76	-	FZ	Homo saniens I M Joneta Mana Att 111120
7388	1	33145	1.26	8.0E-76		L	Home conference and the second
7485	- 1	33231	0.86	8.0E-76		LN	Home carions mitted.
8195	- 1	34027	0.67	8.0E-76		LN.	Home experience intentional carrier taming protein (LOC55972), mRNA
8896		34835	0.55	8.0E-76	AB046764 1	LN.	Homo cariono mDNA 6-1018 (LOCO1151), mRNA
10277	_ [36137	1.35	8.0E-76	T	FZ	Human adversion in NAA 1944 protein, partial cds
10564		36497	4.81	8.0E-76	442824	Ę	initari adentinase (ADA) gene, complete cds
12491	24849		2	8.0E-76		Į.	Indino sapiens baculoviral IAP repeat-containing 6 (BIRC6), mRNA
							really septens calculating protein 1 (KIAA0330), mRNA
759	- 1	26191	1.41	7.0E-76	5016092NT	5	Homo sapiens dihydrolipoamide dehydrogenase (E3 component of pyruvate dehydrogenase complex, 2-oxo-
3288	- 1	28697	2.97	7.0E-76	76 AF056490 1	Į.	Home serions (M.D.) mRNA
3284	16055	28704	7.55	7.0E-76	5052	5	Homo saplens lymphocyte anthen 75 (1 V75) BNA
3330	16090	28743	÷ 0	7.05.78	TIM 3007376		Homo sapiens core-binding factor, runt domain, alpha subunit 2; translocated to 1; exclin D-related
4338	17071	29705	4.73	7.0E-78	TN 6181014		(CBFAZ11) mRNA
4338	17071	29706	4.73	7.0E-78	4507/04 NH		Homo sapiens sepiapterin reductase (7,8-dlhydrobiopterin:NADP+ oxdoreductase) (SPR) mRNA
1212	13962		31,63	6 0E-76 B	5	1	Homo sapiens sepiapterin reductase (7,8-dihydroblopterin:NADP+ oxtdoreductase) (SPR) mRNA
11442	23209	36440	3.76	6.0E-76 B	6.0E-76 BE273201 1 E	Т	COLO 12/12/1971 NITL MGC_44 Homo sapiens cDNA clone IMAGE:3658757 5
1936	14671	27385	4.83	5.0E-76.D		Т	Himsa - DNIA 6. 11 MGC 14 Homo sapiens cDNA clone IMAGE:3506029 5'
1936	14671	273,86	4.83	5.0E-76			Himan mBNA 6-1110
1936	14671	27387	4.83	5.0E-76 D63874.1			Himan mBNA 6-1140 4
5188	17996	30512	1.26	4.0E-76 B		ST HIMAN	SO14212SET NIH MOC 67 L
9923	22571	35768	6.42	4.0E-76 D		EST HUMAN	HUM178G01B Human fetal brain (TFujiwara) Homo sapiens cDNA clone GFN-178G04 g

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		-	<u> </u>	Γ	Γ	Γ	Γ		စ္က		\top	-	Γ	Γ		Γ				٦		丁	1	7	7	7	7	T	7-	<u>-</u>	_
	Top Hit Descriptor	H.M178G018 Himms (Atal hasis (TE. il.	III-H-BW 1-55-1-01 0 111 - 1 101 000 0 0 0 0 0 0 0 0	HILH BWY 2007 F-01.31 NO. CGAP Sub7 Homo sepiens cDNA clone IMAGE:3083862.31	Home september 2010-1011 NOT COAR Sub/ Home sapiens cDNA clone IMAGE:3083862 3'	Home series curva your translation elongation factor 1 beta 2 (EEF1B2) mRNA	POR STORM 190400 000 A A A A A A A A A A A A A A A A	RC5-ST0300-180100-033-A03 ST0300 Home capiens cDNA	ht67f12.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3151823 3' similar to TR:094886 094886 KIAAA7002 BEOTEIN	HSCZOD042 normalized infant brain and U	2073c07.r1 Strategene pancreas (#937208) Homo saplens cDNA clone IMAGE:592524 5' similar to	HOMO canions and other hinding in the canions are cannot be cannot be called in the cannot be	WOOd11 Some males of Shirth 1 mkink, complete cds	Wedglott 1 States ittelationing zind Homo sapiens cDNA clone IMAGE:271842 5:	20540111 Spares to the NUT L	20544111 Source (Selic Multinum Saprens con A Clone IMAGE: 757461 5	EST380059 MAGE PROGRESS 140 1 TOTAL SAPENS CLINA CIONE IMAGE: 757461 5'	EST388535 MAGE recognisment MAGE III	Human mRNA for nosellla prodein TDBDII	Human mRNA for possible protein TDRNII commute.	Human mRNA for bossible protein TDRNII complete das	Homo saplens Immunoalobulin (CD79A) binding protein 4 (IGBD4) Data	Homo sapiens glucadon (GCG) mRNA	Homo sapiens cAMP responsive element binding protein 1 (CREBA) mBNA	Homo sapiens GM2 ganglioside activator protein (GM2A) mRNA	Homo sapiens GM2 gangleside activator motion (GMAA) misson	2560h11.s1 Stratagene schizh brain S11 Home cominge only size 1940 ST 20000000	OLFACTORY RECEPTOR-LIKE PROTEIN F5	2w84e02.s1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:780986 3' similar to SW:ITB5_HUMAN P18884 INTEGRIN BETA.s si ibi init'r poech incom	2w64e02.s1 Soares_testis NHT Home sapiens CDNA clone IMAGE:780986 3' similar to SW:ITB5_HUMAN P18084 INTEGRIN BETA. S CLIDI INIT DEPENSIONED	STATE OF THE DELIVER OF THE OWNER OF THE OWNER OF THE OWNER
	Top Hit Database Source	EST HUMAN	EST HIMAN	EST HIMAN	٠١.	L	FST HIMAN	EST HUMAN	FST HIMAN	EST HUMAN		7	T HI IMAN	Т	Г	T	Т	Т	Т								T HUMAN	Γ	EST HUMAN	T	٦
	Top Hit Acession No.	6 D81625.1	8 BF316262 1	3.0E-76 BF516262.1	4503476 NT	4503476 NT	3.0E-76 BF375689 1		BE348693.1	Z41314.1	AA160611.1	AF286598.1	N42671.1	AW 299353 1	AA442309.1	T		Ī	T		D84295.1	4557662 NT	4503944 NT	4758053 NT	4504028 NT	4504028 NT	AA253954.1	P23266	AA445992.1	AA445992.1	
	Most Similar (Top) Hit BLAST E Value	4.0E-76	3.0E-78	3.0E-78	3.0E-76	3.0E-76	3.0E-76	3.0E-76	3.0E-76	3.0E-76	3.0E-76		3.0E-76	3.0E-76		3.0E-76					2:0E-76	2.0E-76	2.0E-78	2.0E-76	2.0E-78	2.0E-76	2.0E-76	2.0E-76 F	2.0E-76	2.0E-76	
	Expression Signal	6.42	3.2	3.2	3.28	3.28	4.96	4.96	1.07	2.07	1.09	9.57	0.88	3.34	66:0	0.99	1.93	4.86	1.59	4.39	4.39	1.19	1.08	-	1.91	1.91	16.0	3.34	2.06	2.08	
	ORF SEQ ID NO:	35769	26026	26027	27029		28828	28829	29434	37796	31354	32025	33877	35456	35486	35487	30812	30602	25725	25768	25769		25984	26430	26960	26961	27369	28261	28701	28702	
	Exon SEQ ID NO:	22571	13393	13393	14340	14340	16179	16179	16803	17891	18441	19048	20744	22269	22293	22283	25191	25398	13082	13134	13134	13234	13356	13/68	14273	142/3	14658	15614	16052	16052	
_	Probe SEQ ID NO:	9923	615	615	1594	1594	3422	3422	4058	5158	5646	6275	8050	9618	9641	9641	11876	11979	275	333	333	448	576	800	1526	1320	1921	2846	3291	3291	
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					5	וטוב בעטוו רוט	Single Exon Probes Expressed in Brain
Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
3469	16225	28879	0.97	2.0E-76	6 AI821149 1	TAT I	ac83b02.y5 Stratagene lung (#337210) Homo sapiens cDNA clone IMAGE:889163 5' similar to TR:014591
4114			1.23	2.0E-76	6 D84295 1	EN LA	Himmar mb/ly (2)
4895			6.21	2.0E-76	6 AW879618.1	FST HIMAN	OV3-OTTOMS 22030A 422 L44 OTTOMS (PRUI)
5055		06808	1.49	2.0E-76	5031660 NT	-1.	Home gariene EGE III.
5226	Į		1.6	2.0E-76	AF12784	L	Gorilla dorilla affectory reconstration (CCCAs)
5531		31233	6.47	2.0E-76	AB029004.1	Ł	Homo sapless mRNA for KIAA 4004
7334	- 1	33094	0.75	2.0E-76	11426908 NT	LZ.	Home capitare A bissec (PDEA)
7560	- 1	33333	1.91	2.0E-76		Į.	Homo sarions TD/Dos production (10 TEXAP10), mRNA
10182	22830	36045	3.53	2.0E-76		LZ	Homo sapiens similar to the contract of the co
10839	_]	36763	3.58	2.0E-76		L	Homo saniens HIBA intercepting and the sapiens) (LOC63150), mRNA
4265		29638	2.38	1.0E-76	D63874	LN L	Himen orbitor of the state of t
4285		29639	2.38	1.0E-76	D63874 1	Ę	Himon melal 6 - 1110
5362	18164	30849	6.12	1.0E-76	BE796537 1	EST LIMAN	SOCIAL IN THE STATE OF THE CONTRIBUTION OF THE
6150	18927		0.72	1.0E-76	AA333207 1	EST HIMAN	EST37304 Embrar 6 months of the Company of the IMAGE:3944302 5
6825	19486	32508	4.53	9.0E-77		EST HIMAN	COLORAGE ANIII JOS OF THE SAME TOWN SAPERS CLINA 5' end
12644	24941		1.4	9.0E-77		EST HIMAN	6013124337 I NIH_MGC_/1 Homo sapiens cDNA clone IMAGE:3913737 5
182	12004	05030	000				yp11h02r1 Soares breast 3NbHBst Homo saplens cDNA clone IMAGE:1836753 5' similer to
4486	17221	29849	100	8.0E-//	R83144.1	EST HUMAN	SP:ANKB_HUMAN Q01484 ANKYRIN, BRAIN VARIANT 1;
			2	0.0	51203101.1	ES! HOMAN	601866926F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:4109503 5
5366	18168	30854	1.74	8.0E-77	4506230 NT		Homo sapiens proteasome (prosome, macropain) 26S subunit, non-ATPase, 7 (Mov34 homolog) (PSMD7) mRNA
1380	24048	37351	1.91	8.0E-77	AA019770.1	T HUMAN	2862e02 r1 Shares refine NohdHP Homo conjons John Jan 1846 essential
11360	24048	37352	1.91	8.0E-77	AA019770.1	Г	2662e02.11 Sogres retina N2b4HR Homo saviens of NA All Contractions at
12620	24925	31008	4.02	8.0E-77	R00245 4		ye89f04.s1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:123007 3' similar to contains
1922	14659	27370	2.4		-	Т	ACA 001 64 Some facility III.
2411	15132	27868	2.52		05944	Т	Homo contant and traces. (BNA 11/701.1)
2411	15132	27869	2.52	7.0E-77	4505944 NT		Homo septians purjuises set (NAV) il (UNA directed) polypeptide E (25kD) (POLR2E) mRNA
256	13064	25703	8.53	6.0E-77	4504800 NT		Homo september brygning asset (NAVA) II (LNA directed) polypeptide E (25kD) (POLR2E) mRNA
1534	14281	26969	3.22		A 204066.1	T HI MAN	new Septens Interied on (appra, peta and omega) receptor 2 (IFNAR2) mRNA
1214	13964	26631	2.11				7 Home sanisps altractions (CCV) 2000 - 20000 - 2000 - 2000 - 2000 - 2000 - 2000 - 2000 - 2000 - 2000 - 200
1339	14087	26763	1.77		37250		Homo saniens distriction and matellians/considerations described to Anna Anna Anna Anna Anna Anna Anna Ann
2691	15400	28139	0.98	5.0E-77	AF162666.1		Homo sapiens fuisled-like kinese 1 (TTK1) mBNA
					1		Compared in the Misser () LN I) mKINA, Complete Cds

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			1	1	1	\mathbf{r}	_	$\overline{}$	-	-	_	_	_	_	_	_	_	_	· ·		_	_	-		_	_	_				
Single Exon Probes Expressed in Brain	Top Hit Descriptor	Home consists 1 /2 1 /2 1 /2	United Supports Guillin 1 (COL1) MIKNA	Homo contract Por III	Home conjunct ECE III.	DKF743461728 r1 424 (smcom, broot) 1	Homo capiene archin kingo C by 11 4 (2010) Homo capiens cDNA clone DKFZp434G1728 5	Homo sapiens handheitrel metric C Detail (ype (PRKCB1) mRNA, complete cds	Homo sapiens 3-hydroxidachintari Constant (*L.120343), mRNA	Homo sapiens 3-hydroxisobi that Contains A high class (HIBCH), mRNA	Homo sapiens sodia pode 5 (SNVE) - DNA	Homo sapiens sorting newh 8 (SNXS) DNA	Human MRNA for KIAAA 200 accessed a second and a second as a secon	Himan mBNA for KIAA0300 come and a company of the c	Himan IINC 104 and KIE44 miles	Himan I INC 104 and VIC14 - 1-1-1	Home series SET 1	Home society SET 4 mile and marriner transposase fusion gene (SETMAR) mRNA	y 1990 September 2017 delimination of the content o	or.s.1744, PKOBABLE LIGAND-BINDING PROTEIN RY2G5.; Jud4g01.r1 Weizmann Olfactory Epithelium Homo sapiens cDNA clone INA GE: 220600 Et alemina.	SP:S17447 S17447 PROBABLE LIGAND-BINDING PROTEIN RY2G5 -	PM3-MT0078-080800-005-903 MT0078 Homo sapiens cDNA	AV764617 MDS Homo sapiens cDNA clone MDSBTF10 5'	RC3-BN0053-170200-011-h01 BN0053 Homo sapiens cDNA	Homo sapiens CYP17 gene, 5 and	Homo saplens CGI-79 protein (LOC51634), mRNA	Homo saplens mRNA for KIAA1415 protein, partial cds	Homo sapiens mRNA for KIAA1415 protein, partial cds	ho43b05.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:3040113 3' similar to SW:GAG2 HUMAN P10244 RETROVIEITS, PET ATED CAC BOX SECULTION	W22g02.x1 NCI_CGAP_Brn52 Homo sapiens cDNA clone IMAGE:2260466 3' similar to TR:065245	W22902.X1 NOI_CGAP_Bm52 Homo sapiens cDNA clone IMAGE:2260466 3' similar to TR:065245 O65245 F21E10.7 PROTEIN.:
gle Exon Pro	Top Hit Database Source	μ	1			EST HUMAN	L	LZ	NT.	LZ	L	Z	LZ	E	LZ.	Į.	Į.	ļ.	Louis Louis	NVINOL	EST_HUMAN	EST_HUMAN	EST HUMAN	EST_HUMAN	Z		LN	L	EST HUMAN	EST HIMAN	EST_HUMAN
Sir	Top Hit Acession No.	4503460 NT	8304549 NIT	5034860 NT	5031660 NT	7 AL043953.1	7 M13975.1	8923319 NT	11428849 NT	11428849 NT	11421928 NT	11421928 NT	7 AB002297.1		Γ		5730038	5730038 NT	H65167 1		1			12.1	1.67014	2	Ţ	AB037836.1	BE044316.1	Al613519.1	
	Most Similar (Top) Hit BLAST E Value	5.0E-77		5.0E-77		5.0E-77	5.0E-77	5.0E-77	5.0E-77	5.0E-77	5.0E-77	5.0E-77	5.0E-77	5.0E-77		5.0E-77	3.0E-77	3.0E-77			7	_	2.0E-1//	_	-1-		2.0E-17 P		2.0E-77 B	2.0E-77	-
	Expression Signal	0.99	0.89	2.47	2.47	2.96	0.57	0.59	1.28	1.28	2.48	2.48	1.22	122	3.12	3.12	1.09	1.09	0.79		0.79	80.7	4. 5	2 2	5 22	31,5	38.	1.92	1.96	0.74	0.74
	ORF SEQ ID NO:	28214	28923		30023	30231	32642						36249	36250	37716	37717	27417	27418	38050		1900s	36769	28844	27548	27560	28053	28054	40034	29386	29749	29750
	SEQ ID NO:	15472	16268		17389	li		20393		ı	22078	- 1	23034	23034	24384	24384	14701	14701	22836	00000	23,480	4070	14160	14816	14827	15500	15,500	2000	16758	17116	17116
	Probe SEQ ID NO:	2767	3512	4655	4655	4884	9899	7730	8266	8266	9469	9469	10388	10388	11794	11794	1965	1965	10188	970	10785	133	1412	2084	2096	2802	2802		4012	4379	4379
															_																

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				_			-			_	_			_												
Top Hit Descriptor	Homo sapiens glutamic-oxaloacetic transaminase 2, mitochondrial (asparlate aminotransferase 2) (GOT2), nuclear gene encoding mitochondrial protein, mRNA	ns68g12.s1 NCI_CGAP_Pr2 Homo saplens cDNA clone IMAGE:1188838 similar to SW:RL29 HUMAN	P4/914 60S RIBOSOMAL PROTEIN L29 [1] contains element MSR1 repetitive element;	601478802F1 NIH MGC 68 Home capiens cDNA clone IMAGE:3029436 5'	at74a09.x1 Barstead colon HPLRBY Home saplens cDNA clone IMAGE:2377720 3' similar to TR:Q13311 Q13311 TAX1-BINDING PROTEIN TYEDS-6-10.	4970c09x1 NCI_CGAP_Brin25 Homo septiens oDNA clone IMAGE:2017360 3' similar to WP:F29D11.1	Himan motion (in page 1) The CEP 1 OR HELD PROTEIN;	Himan protein kingse C substrate 80K-H (PRKCSH) gene, exon 7	ANA SOCIAL MILE AND LINE AND L	601895182F1 NIH MGC 10 U.S. TOMO SAPIENS COIN CON CONTRACTOR STATES AND MGC 10 U.S. SAPIENS CONTRACTOR SAPIENT SAP	Homo societe m DNA 6-14 A 44225	Homo sapiens mRNA for KIA 4 276	Spanial Control Nova (270 protein, partial cds	nomo sapiens amyoid beta (A4) precursor protein (protease nexin-II, Alzheimer disease) (APP), mRNA	Homo sapiens amyloid beta (A4) precursor protein (protease nexin-II, Alzheimer disease) (APP), mRNA	Homo sapiens amyloid beta (A4) precursor profein (professe nevinal) Alzhaimar discours (AB)	Arms conject on the Law (Arr), many	wassans of Scarce the control of the	Home septembly 6-14/4/12	Homo sapiens 2 Adjourn Ch. And Co.	Homo sapiens CGL-80 purple: (1 OCEAscar - DNA	dome saviante 050 kb confit between All I one	Homo capiens broad agreed 4 and CBK1 on chromosome 21q22; segment 1/3	Homo sapiens KIAAAAA men mading (ISBCA1), ranscript variant BRCA1-exon4, mRNA	Homo sapiens KIAA0005 gene product (KIAA0005) mRNA	Homo sapiens dynactin 1 (DCTN1) gene, exons 27 and 28
Top Hit Database Source	FN	18881111 202	EST HUMAN	EST HUMAN	EST HUMAN	EST HUMAN	TN	12	EST HIMAN	EST HUMAN	LN	L	F	Ē	7			T HI MAN								
Top Hit Acession No.	4504068 NT	77 64853005 4	77 BE 298940 1	77 BE787143.1	77 AI833003.1	77 Al362707.1	77 U50321 1	77 U50321.1	77 BF310349 1	77 BF310349.1	T		TIV 9940034	202700	4502166 NT	4502166 NT	4502168 NT	7 AW058119.1	T	3300	7706289 NT	AJ229041.1	2322	7661849 NT	7661849 NT	AF086944.1
Most Similar (Top) Hit BLAST E Value	2.0E-77	2 OF-77	2.0E-77	2.0E-77	2.0E-77	2.0E-77	2.0E-77	2.0E-77	2.0E-77	2.0E-77	1.0E-77	1.0E-77	1 OF-77		1.0E-77	1.0E-77	1.0E-77	1.0E-77	1.0E-77	1.0E-77	1.0E-77		1.0E-77	1.0E-77	1.0E-77	1.0E-77
Expression Signal	0.96	1.59	1.9	1.73	15.46	0.82	5.05	5.05	0.47	0.47	1.03	1.03	7.19		7.19	17.31	17.31	6.0	1.32	1.72	3.37	16.41	2.29	1	1	2.45
ORF SEQ ID NO:		30082		Ш	32829	34259	35280	35281	35738	35739	25489	25490	25714		25715	26296	26297	27360	27902	28451	29684	29851	29967	30337	30338	31561
Exon SEQ ID NO:	17292	17449	18652	18859	19765	21120	22106	22106	22545	22545	12870	12870	13074		130/4	15554	15554	14649	15164	15806	17059	17223	17338	17732	17732	18627
Probe SEQ ID NO:	4557	4717	5865	9080	7074	8427	8428	9428	9895	9892	42	42	266	1	8	855	855	1912	2445	3040	4320	4488	4603	5010	5010	6889
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			T		T	T			T	T			T	T	T	T	T	T	П		T	T	T	Γ	Γ	Ī	T		_	Τ	Τ	T	П
Single Exon Probes Expressed in Brain	Top Hit Descriptor		Homo sepiens dynactin 1 (DCTN1) gene, exons 27 and 28	Human von Willebrand factor gene, exon 20	Homo saplens diaphanous (Drosophila, homolog) 1 (DIAPH1), mRNA	Homo saplens elastin (supravalvular aortic stenosis, Williams-Beuren syndrome) (ELN), mRNA	Homo saplens cullin 1 (CUL1), mRNA	Human mRNA for kidney epidermal growth factor (EGF) precursor	In sapiens DINA for Cone cGMP-PDE gene	In: Saplens DNA for Cone cGMP-PDE gene	Homo contract. Ot A T. P. MKNA for glucuronytransferase, complete cds	PC3 CT035(2000) 24 1-7 MKNA for glucuronytransferase, complete cds	PC3 ETAGO AGEST 2011-503 CT0254 Homo sapiens cDNA	NCZ-E1 0023-090500-012-e05 E10023 Homo saplens cDNA	NCZ-E10023-080500-012-e05 ET0023 Homo sapiens cDNA	AU116/89 HEMBA1 Homo sapiens cDNA clone HEMBA1004354 5	AC118/89 HEMBA1 Homo sapiens cDNA clone HEMBA1004354 5	Homo sapiens GDNF family receptor alpha 1 (GFRA1), mRNA	Inomo sapiens hypothetical protein FLJ11316 (FLJ11316), mRNA ba64h03.y3 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:28004n5 5: similar to Mic-Xvabao. a	(CE22121;	numan collagenase type IV (CLG4) gene, exon 6	nomo sapiens Best's macular dystrophy related protein mRNA, partial cds	FST365400 MA CT	Himen hoosenal all L	Software 1 years and a pra-mannosidase (manB) gene, exch 7	OUTUPED IN IN MICE 52 Home saplens cDNA clone IMAGE:3931887 5	DNFZP434N0323_r1 434 (synonym: htes3) Homo saplens cDNA clone DKFZp434N0323 5'	wi97b12.x1 NCI_CGAP_KI411 Homo saplens cDNA clone IMAGE:24958153' similar to SW-WAP PIG	O40055 WHEY ACIDIC PROTEIN PRECURSOR;	nomo sapiens pre-mRNA splicing factor (SFRS3) mRNA, complete cols	nomo sapiens syncytin (LOC30816), mRNA	Home seniors about the first of the finase, catalytic, alpha polypeptide (PIK4CA) mRNA	Homo saptens prospiratoly/inositol 4-kinase, catalytic, alpha polypeptide (PIK4CA) mRNA Homo saptens SFRS protein kinase 2 (SRPK2), mRNA
igle Exon Pro	Top Hit Database Source	ļ	-	N	2	Z	Z	Z	2 12		Ę	EST HIMAN	ENT LINAN	EGT LILLIAM	ENT LINAN	EST LINAN	NAME OF THE	2		EST HUMAN	FIN	E EX	EST HIMAN		EST HIMANI	ST HIMANI	LN LN	${}^{-}$	ES L'AUMAN				
	Top Hit Acession No.	77 AE098044 4	77 M25044 4	MESONA, I	TO00100	3001412 NI	77 X04574 4	7 X94354 1	X94354 1	7 AB029396 1	7 AB029396 1	4W753302 1	78 AW947081 1	78 AW9470R1 1	8 AU118789 1	8 AU118789 1	44790740 NIT	14327 10 N	3	8 MEESS 4		16585	AW953120 1			l		ĺ		3687R	4505808 NT	4505808 NT	11420732 NT
	Most Similar (Top) Hit BLAST E Value	1 0F.77	4 OF 77	1.0E-77	4 OF 77	1 05 77	1 OF 77					9.0E-78	8.0E-78	8.0E-78	8.0E-78	6.0E-78	8 OF -78	5.0E-78	05 30 3	5.0E-78	5.0E-78	5.0E-78	5.0E-78	5.0E-78 U			4.0E-78 A				4.0E-78	4.0E-78	4.0E-78
	Expression Signal	2.45	14	0.82	217	1 05	69 0	0.62	0.62	3.1	3.1	2.55	3.11	3.11	1.87	1.87	2.54	0.72	n n	3.8	2.33	11.12	2.23	6.78	3.31	1.07	1.78	100	2.08	1.73	2.61	2.61	1.41
	ORF SEQ ID NO:	31562			ĺ					36288	36289	36326	32117	32118	25548	25549		25663	28019	28797	30789	31183	32808	34821	34822	26531	26940	27079	27779	29652	30088	30089	31391
	SEQ ID NO:	18627	18738	1	19435	ı		i	1	23067	- 1	23095		19124	12910	12910	19232	13024	15281	16139	18130	18287	19745	21671	21672	13872	14254	14390	15041	17027	17454	17454	18474
	Probe SEQ ID NO:	5838	5956	6356	6953	7564	7663	9165	9165	10421	10421	10449	6354	6354	2	84	6465	212	2567	3380	5327	5488	7054	8981	8982	1115	1508	1644	2316	4288	4722	4722	5681

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		_		~	_	-	_		_	_	_		_	_													_		_				
	Top Hit Descriptor	Human serine/threonine kinase MNB (mnh) mRNA complete ods	Homo sapiens low density liboprofein-related profein 2 / 1000 menu	W820b08.x1 NCI CGAP Kid11 Hamo saniens cDNA chas NAAGE 2208845 21	Homo sabiens peptide YY (PVY), mRNA	RC2-BN0074-090300-014-c12 BN0074 Homo sanians c NNA	Homo sapiens mRNA for activator of S phase Kinase, complete cds	Homo sablens ubjouitin-continuation amone 505 3 (homotocout to the continuation and the conti	Homo saciens brootherical profesion FI (2012/45/ FE) (2012/45) MRNA	Homo sepiens cAMP response element thirding profession OPE BD2 (U. OCACETAEA)	Homo sapiens cAMP response element-binding protein CRE-RPa (H. CS.16311), mKNA	Homo sapiens threony-IRNA switterbase (TARS) mRNA	Homo sapiens threony-tRNA synthetiase (TARS) mRNA	Homo sapiens cassin kinase II alaha satuk mahadaka da	Homo sapiens casein kinase II alpha subunit mRNA complete cds	Homo sapiens DNA for amyloid precursor protein complete cde	Homo sapiens hypothetical protein FLI20535 (FLI20535) mBNA	Homo sapiens zinc finger protein 216 splice variant 1 (2NE216) mRNA complete At	Homo sapiens zinc finner profein 218 sulles varient 1 (ZNE 218) m.N.M. complete cus	Homo sapiens TRAF6-regulated IKK activator 1 beta Llev1a mRNA complete cus	Homo sapiens suppressor of white apricot homolog 2 (SWAP2) mRNA	Homo sapiens suppressor of white apricot homolog 2 (SWAP2), mRNA	Hamo sapiens chromosome 21 segment HS21C010	Homo sapiens period (Drosophila) homotog 3 (PER3), mRNA	601472766T1 NIH_MGC_68 Homo sapiens cDNA clone IMAGE:3875657 3'	2j94e04.s1 Soares_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:462558 3' similar to TR:015408 015408 NEITRAI DEOTEACE IADGE CIDINALT	Homo saplens chromosome 21 segment HS21 ChR2	Homo sapiens hypothetical protein FLJ10283 (FLJ10283) mRNA	Homo sapiens Intersectin short isoform (TSN) mRNA commete cds	Homo saplens cell-line tsA201a chloride ion current inducer protein I/Cin) some commissional	Human zinc finder protein ZNF131 mRNA barrial cas	Homo sapiens MSTP016 (MST016) mRNA complete cds	Homo sapiens mRNA for KIAA0892 protein, partial cds
01 III 0.6	Top Hit Database Source	N	LN LN	EST HUMAN	Ι	EST HUMAN	N	Ę	Ł	Į	F	۲	Į.	LZ	NT	NT	IN	ZN	Į.	₽ F	N.	FZ	F	Į.	EST_HUMAN	HST HIMAN	Z		ĻΣ				
	Top Hit Acession No.	78 U52373.1	11430460 NT	78 AI650919.1	11525891 NT	9.0E-79 BE000837.1	ŀ	5454145 NT	11424427 NT	11421735 NT	11421735 NT	11417260 NT	11417260	'9 J02853.1	102853.1	79 D87675.1	11438643 NT	9 AF062346.1	9 AF062346.1	9 AY008273.1	11423827 NT	11423827 NT	9 AL163210.2	8567387 NT	9 BE619648.1	6.0E-79 AA699829.1		8922325 NT	9 AF114488.1	AF232708.1			3.0E-79 AB020699.1
	Most Similar (Top) Hit BLAST E Value	1.0E-78	1.0E-78	1.0E-78	9.0E-79	9.0E-79	9.0E-79	9.0E-79	9.0E-79	9.0E-79	9.0E-79	9.0E-79	9.0E-79	9.0E-79	9.0E-79	9.0E-79	9.0E-79	9.0E-79	9.0E-79	9.0E-79	9.0E-79	9.0E-79	8.0E-79	8.0E-79	7.0E-79	6.0E-79	5.0E-79	4.0E-79	3.0E-79 A	3.0E-79 A	3.0E-79	3.0E-79 A	3.0E-79
	Expression Signal	3.28	1.39	1.55	4.05	8.05	16.87	2.38	0.99	0.79	0.79	0.49	0.49	5.1	5.1	0.58	0.82	1.73	1.73	3.13	3.55	3.55	0.91	1.82	26.39	4.32	2:52	1.49	1.28	3.85	1.51	5.24	1.24
	ORF SEQ ID NO:		31117	30718	30016	30166	30829	31994		33239	33240	34074	34075	34802	34803	35206	36121	36182	36183	36930	37410	37411	29115	30596	28660	•	37390		25749	26388	28501	30738	31345
	Exon SEQ ID NO:					17542	18149	19022	25108				l		21652	- 1	22911	22965	22965	23674	24098	24098	16478	17910	16009	24466	24079	15936	13109	13722	15860	18082	18432
	Probe SEQ ID NO:	8028	12045	12477	4650	4811	5346	6248	7251	7473	7473	8244	8244	8961	8961	9280	10263	10318	10318	11001	11497	11497	3725	11966	3247	11899	11478	3173	305	957	3085	5277	5637

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Table 4

Single Exon Probes Expressed in Brain	ilar It Top Hit Acess E No.	92000	79 BE789470 1 EST LIMAN	79 BE789470 1 EST UNIMAN	11426770 NT	11426770 NIT	11426/70 IN	20 AB044504	19 AB014520.1 NT	10 80404E NT	79 AF249273 4 NIT	1089605 NT	19 AV698115 1 ECT ULIVANI	9 AF249273 1 NIT	19 AF249273 4 NT	19 H63129 1 ECT LI IMAN	9 BE379926 1 FST HIMAN	9 4757841	9 AI523747.1 EST HUMAN	9 7657024 NT	9 7657024 NT	9 4585863 NT	9 4585863 NT	9 AJ271408.1 NT	Γ	Z	2.0E-79 AJ271408.1 NT Homo sariens mRNA for Economic CLC4 (CIC4) mRNA, complete cds		44104760 NT	VB0710111	NI I I I I I I I I I I I I I I I I I I	AF263613.1 NT	7382479 NT	7382479 NT
Single Exon Probes Expr	op Hit Acession Top Hit Database	approp	TOT LIBRARY	NAME TO THE	A770 NT		NIO LOCA	ESI HUMAN	Z	FIA DAYC	NI OCT-7	INI SCOOL	FOT LIMAN	LO LUMAIN	Į.	EST LIMAN	EST HIMAN	7841 NT	EST HUMAN	57024 NT				Ł	L.	Z	Į.		A 780 NIT	N SOLL	Z	١		
	혈ᆠ	Value	3.0E	3.0	3.0E	3.0E-79	305	3 OF.	305	3 OF.	3.0E	3.0F	306	3.0E-	3.0E-	2.0E	2.0E	2.0E-	2.0E-7	2.0E-7	2.0E-7	2.0E-7	2.0E-79	2.0E-79 AJ	2.0E-79 AB	2.0E-79 AF	2.0E-79 AJ	2 05 70 4	2.0E-79				2.05-79	2.05
	Expression Signal		9:0	0.93				3.35	3.35	0.78	1.61	1.33	1.24	1.52	1.52	0.99	1.6	2.28	2.09	1.12	1.12	5.93	5.93	1.07	1.09	0.83	1.09	1 22	80	1 14		0.08	7	100
	ORF SEQ ID NO:		31371	31372	31392					33503				36694	36695		26033	26339		27226	27227	27607	27608	27652	28166	29283	29517		31348	31896	20677	32822	32823	33821
	Exon SEQ ID NO:	I	_	18457	i	18475	19408	1	19442	20389	20758	21970	22893	23462	23452	13088	13398	13674	13/72	14522	14522	14874	14874	14918	15428	18643	16886	18382	18435	18926	17041	19758	19758	20694
	Probe SEQ ID NO:		5662	5662	5682	5682	6646	9969	0969	7728	8064	9303	10245	10768	10768	38	619	206		100	1/8/	2144	2144	2189	2721	3883	4144	5585	5640	6149	6864	7067	7067	2999

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Table 4

Single Exon Probes Expressed in Brain	Top Hit Descriptor	Homo saniene hunchefinel aretain El Manon /Fl Manon	Home capiers, system relical protein re-11008 (FL)11008), mRNA	Homo sapiens hypothetical protein FI 120275 (FL22275), mRNA	Homo sapiens similar to ATPase, H-transporting, Iyosomal (vacuolar proton pump) membrane sector	HA(D10S170) = mitative control (LOC63961), mRNA	H4(D10S170) process cyclescal protein fruman, thyroid, mRNA, 3011 ntj	Human contactin 1 precireor (CNTM1) —BNA	RC4-810310-110300-015-f10 BT0340 Home services and	RC4-BT0310-110300-015-f10 BT0310 Home coning CDIVA	Homo sapiens KIAA0879 profein (KIAA092A) Bhia	Home saniens mRNA for KIAAA922 and a medial of	Homo sapiens cadherin EGE 40 cours and 0	MRO-NN0087.280800-047-540 NIN0087 House Grippe receptor 1 (CELSR1), mRNA	601311517F1 NIH MGC 44 Home contains ability at a 114 OF access at	OV2-HT0640 120000 358 OF UT0640 U	ar78a04 v1 Barchad colon HDI DD7 Done control	al23e05 s1 Series facilie NHT Home conjunt of the August Series of the August Series facilies and the August Series facilies	al 23e05 st Spares heefe NHT Home continue abits de 1343648 3	601581652F1 NIH MGC 7 Homo seniers cDNA clone 1343648 3'	Homo sapiens solute carrier family 7 (cationic amino acid transporter, y+ system), member 8 (SLC7AB), mRNA	Homo saplens solute cerrier family 7 (cetionic amino acid transporter, y+ system), member 8 (SLC7AB), mRNA	Homo caniane V chromosomo os console	Home registers KIMANZA and a spettial delication of the special control of the special cont	Homo sapiens KIAA0724 gene product (KIAA0724) mRNA	Homo sabiens triple functional domain (OTDDE interesting) (TDDO)	Homo sabiens trible functional domain (PTPRF interaction) (TDIO) DNA	### ### ##############################	Homo saplens NRD convertase mRNA, complete cds
gle Exon Pro	Top Hit Database Source	L	Ę	Ę	<u> </u>	Į.	NT	Ł	EST HUMAN	EST HUMAN	1	TN	LZ	EST HUMAN	EST HUMAN	EST HIMAN	EST HIMAN	EST HUMAN	EST HUMAN	EST HUMAN		 -	Į Į	-	<u> </u>	1	 	NAMILIE	П
Sin	Top Hit Acession No.	11427428 NT			1	S72869	9 S72869.1	9 U07819.1	2.0E-79 BE064386.1	BE064386.1	7862357 NT	AB020640.1	2.0E-79 11418322 NT	1.0E-79 BF363071.1	1.0E-79 BE394211.1	1.0E-79 BF087405.1	AI460115.1		T		11433924 NT	11433924 NT	U94387.1	1422847	11422647 NT	6005921 NT	6005921 NT	A 1422197 1	\prod
	Most Similar (Top) Hit BLAST E Value	2.0E-79	2.0E-79	2.0E-79	2.0E-79	2.0E-79	2.0E-79	2.0E-79	2.0E-79	2.0E-79	2.0E-79	2.0E-79	2.0E-79	1.0E-79	1.0E-79	1.0E-79	1.0E-79			9.0E-80	9.0E-80	9.0E-80			8.0E-80	8.0E-80	8.0E-80	6.0E-80	8.0E-80
	Expression Signal	2.25	0.58	0.58	1.65	1.44	1.44	12.34	4.05	4.05	2.18	5.19	2.89	3.76	0.78	2.05	1.8	2.35	2.35	1.14	8.66	8.66	1.31	3.07	3.07	1.13	1.13	27.	2.22
	ORF SEQ ID NO:	34247	34503	34504	34734	35850	35851	36627	36880	36881	30594	31108	31075		33969	37543		28551	28552	35757	37199	37200		33268	33269	35142	35143	26318	27071
	Exon SEQ ID NO:	21108		21356		22640	22640		ı	23632	17908	24548	24690	25091	20837	24220	25333	15907	15907	22561	23907	23907	16342	20175	20175	21969	21989	13649	14384
	Probe SEQ ID NO:	8415	8664	8664	8902	8882	9992	10698	10956	10956	11936	12018	12238	6492	8143	11623	12047	3143	3143	9912	11245	11245	3588	7504	7504	9302	9302	880	1638

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		_	_	$\overline{}$	_	_	_	,	_		_	_	_	, –	_	_	_						_		_		_							
	Top Hit Descriptor	Homo sanione mBNA 6m V/A A 4456 miles in the control of the contro	Home contains m DNA 6- VIA A4455	Homo septents introver to NAAT 100 protein, partial cds	Homo Saniens mBNA (** d. **)	Homo sapiene highs, illiconstating of the intervention (DNAH9 gene)	Homo sapiens KIA A0044 Anthon (TOLPS), MRNA	Homo sapiens dystrophin (DAD) = BNA	Homo saniene G protein control in the Control of th	Homo saplane G protein country	Home explores the property of	Home septions LEBOARD SEGMENT HS2TC101	Human september 15F C++0 ITRINA, complete cds	Trumair corresponde CoMP-phosphodiesterase alpha' subunit gene, exon 21	Home suprems preferred in A-inhibited guanine nucleotide-exchange protein 1 (BIG1), mRNA	Truito saprens Cyrie mikina, complete cds	runnan peroxisome targeting signal 2 receptor (Pex7) mRNA, complete cds	Homo sapiens N-acetyglucosamine-phosphate mutase mRNA, complete cds	Homo sapiens mRNA for KIAA0717 protein, partial cds	Homo saplens mRNA for KIAA0717 protein, partial cds	#58d02.x1 NCI_CGAP_Bm23 Home sapiens cDNA done IMAGE:2103459 3' similar to SW:NUEM_HUMAN	Homo sapiens glutathione S-transferase theta 2 (GSTT2) and all trathinne S-transferase theta 2 (GSTT2).	genes, complete cds	Homo sapiens CST gene for cerebroside sulfotransferase, expn 1, 2, 3, 4, 5	Homo sapiens mRNA for sodium-glucose cotransporter (SGLT2 gene)	Homo sapiens glutathione S-transferase theta 2 (GSTT2) and glutathione S-transferase theta 1 (GSTT1)	lomo saniene anchesamma (manama manama) and	Ume organic processorice (prosume, meropain) 265 Subunit, non-ATPase, 3 (PSMD3) mRNA	nonio sapiens senne oreconine protein kinase (MNBH) mRNA, complete cds	nomo sapiens serine-threonine protein kinase (MNBH) mRNA, complete cds	H.sapiens nox1 gene (exon 12)	Homo sapiens chromosome 21 segment HS21 C083	Human (3)mbt protein homolog mRNA, complete cds	Homo sepiens mRNA for KIAA1434 protein, partial cds
	Top Hit Database Source	FZ	LN	Į.	LN	Ę	L	Z	5				Ę							NT.	NAME I				L L	<u> </u>								
	Top Hit Acession No.	T	-80 AB032981 1	1462	-80 A J 40 4 4 6 8 1	36736	7662393 NT	80 M18533.1	526464	11528484INT	80 AL163301.2			11427386	6.0E-80 AF226730 1 NT	176560 1	,			6.0E-80 AB018260.1	6.0E-80 Al422197.1		6.0E-80 AF240786.1				1622B		Ī		T		T	3037855.1 NT
	Most Similar (Top) Hit BLAST E Value	8.0E-80	6.0E-80	6.0E-80		6.0E-80	6.0E-80	6.0E-80	6.0E-80	6.0E-80	6.0E-80	6.0E-80/	6.0E-80	6.0E-80	6.0E-80	6 0F-80 176560 1	8 05 80	00-00-0	0.05-00	6.0E-80 A	6.0E-80		6.0E-80 A	6.0E-80 A	6.0E-80 AJ133127.1	6.0E-80.A	5.0E-80 45(5 0F-80 AF108830 4	5 OF -80 A	5 OE BO Y04647 4	2.0E-0V	5.0E-60 AL163283.2	3.05-80 0.	5.UE-SUIA
	Expression Signal	1.08	1.08	1.79	3.37	4.69	1.17	96.0	3.22	3.22	1.51	0.83	1.48	2.83	28.56	1.59	7.	900		2.26	1.88		2.42	97.0	1.94	1.35	0.74	1.97	1 07	230	2.09	4.20	20.0	co.i
	ORF SEQ ID NO:	29620			31729	31882				34559	34751	35113	35619	36788	37138	37623	37677	37725	2001	3//20	26318	-	+	$\frac{1}{1}$		30958	25983	26253	26254		 	12824	2780g	100017
_	Exon SEQ ID NO:	L		18505						_ [. 1	21938	22412		23852	24297	24347	24392	20070	76047	13649	25247	2/870	25044	45034	25051	13354	13586	13586	13920	14188	15083	15152	3
L	Probe SEQ ID NO:	4252	4252	5712	5984	6135	6179	6230	8723	8723	8917	9259	9761	10861	11187	11702	11756	11802	11800	1 1002	11906	12020	12210	12707		12804	574	815	815	1166	1439	2361	2431	

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Top Hit Descriptor	Homo sapiens H3 histone family member 1 (1951) — DNIA	Home canisms HMT4 and the state of the state	Homo capients Him I = Him VA for beta-1,4 mannosyfitransterase, complete cds	Homo serient of remaining to be and the mannesy transferase, complete cds	Mile misculus leading leading 1 segment HSZ10068	was nusculus retain complex z, gene og (krtz-6g), mRNA	HSPD13155 HM3 Homo sapiens cDNA clone s4000045F03	Train suprens chromosome 21 segment HS21C010	TWO-CINDS OF STATES OF THE PROPERTY CONTRACTOR OF THE PROPERTY	oo23912.x1 Soares NSF_FB_9W_OT_PA_P_S1 Homo sapiens cDNA clone IMAGE:1567054 3' sImilar to	OBSERBLY Course informations in the instance of the instance o	Pacadon 1 Scarce Infant District IND Homo Sapiens CDNA clone IMAGE:38060 5	THE TANKE AND ASSESSMENT OF THE PROPERTY OF THE TANKE AND ASSESSMENT OF THE TANKE AND	DIN ZERSAD 1922 1 434 (Synonym: Riess) Homo sapiens cDNA clone DKFZp434D1323 5	misouries in Court Coa Home sapiens cDNA clone IMAGE:1090177 3	months social transport complex protein (90 kDa) (GTC90), mRNA	SPIKICR XENI A PORRAZ KERATIN TVDE I CYTOCKE TTALL TALL TO SIMILATE	EST376343 MAGE recommend MAGILLE	Homo sabiens GGT gene exon 6	최정대로, Testis_NHT Homo saplens cDNA clone IMAGE:727727 5' similar to TR:G191315	Homo sapiens chromosome 21 scarment US2/2400	Homo sapiens chromosome 21 inknown mBNA	nn01f12x5 NCI_CGAP_Co9 Homo sapiens cDNA clone IMAGE:1076495 3' similar to contains OFR.t1 OFR	openio cumini i formo canidane nominale de la comini de la cominio de la	601274305F1 NIH MGC 20 Home serious CNN A receptor, gamma 2 (GABRG2) mRNA	Human pro-alphaf type II collades (COL 201) Sees 8 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Homo sapiens malate dehydrogenase 2, NAD (mitochondrial) (MDH2), nuclear gene encoding mitochondrial mineral manal.	Homoson, makes mBMA for linearkill. D	WQ26c05 x1 NCI CGAP Kid11 Home emisses CDNA class 144 CE SATSACES	wq25c05x1 NCI_CGAP_Kid11 Homo saplens cDNA clone IMAGE:2472296 3
Top Hit Database Source	L	LZ.	Į	Ę	LZ	TATAL TO LA	ESI HUMAN	ECT LIBRARI	EST HIMAN	EST HIMAN	EST HIMAN	EST HIMAN	EST HIMAN	EST HIMAN	TINO LIN	2	EST HUMAN	Τ	Т	HST H! IMAN	Т		EST HIMAN		T HUMAN	Т			T HUMAN	
Top Hit Acession No.	4504292 NT	80 AB019038 1	5.0E-80 AB019038 1	AL 163268 2	TM 59210293 NT	COK01E 4	3.0E-80 AI 163210 2	1		(335321 1	2.0E-80 Al444821 1	2.0E-80 A 0431162	A 582952 1	2.0F-80 11421030 NT	000134		Γ	2.0E-80 AJ007379.1		1.0E-80 AL163303.2			57810	BE386615.1		5174540 NT	AJ224172 1	T	\prod
Most Similar (Top) Hit BLAST E Value	5.0E-80	5.0E-80	5.0E-80	5.0E-801	5.0E-80	A OF BO	3.05-80	3 OF-BO	3.0E-80	3.0E-80	2.0E-80 R35321 1	2.0E-80/	2.0E-80/	2.0E-80 /	2.0F-R0		2.0E-80	2.0E-80	2.0E-80 /	2.0E-80 A	1.0E-80	1.0E-80 A	1.0E-80 A	1.0E-80	1.0E-80 B	1.0E-80 L	1.0E-80	1.0E-80 A	1.0E-80	1.0E-80 A
Expression Signal	1.67	1.37	1.37	1.28	1.04	8 77	8.96	1.7	3.77	2.68	5.08	1.19	5.82	0.93	1.71		1.46	1.41	1	4.49	2.25	1.37	2.44	0.99	6.43	6.58	1.36	0.95	2.53	2.53
ORF SEQ ID NO:	28242		L			L		30030		31443	27238	27307	27509	32687	32496		32908	34905	35516	36705		26215		30397		31608	32174	32859	33237	33238
_ \overline{\sigma}			16764			L		17395	17580	18522	14530	14591	14782	19623	19474		19838	21746	22320	23463	13132	13554	14682	17779	18050	18687	19175	19794	20145	20145
Probe SEQ ID NO:	2797	4018	4018	4900	8255	9157	211	4661	4850	5730	1790	1853	2049	6708	6813		7151	9057	9868	10780	331	782	1947	5060	5244	5881	6406	7108	7472	7472

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Single Livin Flobes Expressed in Brain	Top Hit Descriptor	Homo sapiens protein tyrosine phosphatase recentor type A (PTPBA)	Homo sapiens protein prosine phosphatase receipt the A (PTDDA). — Buy	Homo sapiens protein trosine phosphatasa receptor type, A (DTDDA)	Homo sapiens probable mannose hinding C-than Jorian DC SIGNID DAIA	Homo saciens probable mannose hinding C-time locity DC-SIGNE DNA	Homo sabiens mRNA for KIAA0145 protein partial cds	Homo sapiens similar to rat myomegalin (LOC84182). mRNA	Homo sapiens similar to rat myomedalin (I. OCA4182) mRNA	Homo saplens meningloma (disrupted in balanced translocation) 4 (MMM) - DMM	Homo sapiens mRNA for KIAA0833 protein, partial cds	ph90g05.x1 Soares NFL T GBC S1 Homo saniens cDNA clone IMARGE-1884208 31	obgoods x Soares NET T GRC S1 Home company of the MACE 2020 S	1801310531F1 NIH MGC 44 Home saniens cDN4 clone IMA DE 3832272 E1	Z891c08.X5 Sogres, fetal lund NhHI 10W Home caniens CDNA class MACE: 300cta pri	601111970F1 NIH MGC 16 Home saniens cDN4 close MAAGE-22520A 51	601111970F1 NIH MGC 16 Home sapiens cDNA clone IMAGE 3352840 5	Homo sapiens ATP-binding cascette sub-family 4 (ABC) months of (ABC)	Homo sapiens ATP-binding cassette sub-family A (ABC1) member 2 (ABCA), mishing	Homo sablens chromosome 1033-p.34 beta-1 4 rejective directions military	EST69129 Fetal lung II Homo septiens cDNA 57 and	601312522F1 NIH MGC 44 Homo sapiens cDNA clone IMAGE: 3850384 F	602153666F1 NIH_MGC 83 Homo sapiens cDNA clone IMAGE:4294601 5	602153666F1 NIH_MGC 83 Homo sapiens cDNA clone IMAGE:4294601 57	601125505F1 NIH MGC 8 Home sapiens cDNA clone IMAGE:3345480 5	Homo sapiens mRNA for KIAA0454 protein, partial cds	Homo saplens mRNA for KIAA0454 protein, partial cds	Human transforming growth factor-bets (first-bats) mRNA Ammilate Adv	Human transforming growth factor-beta (Inf-beta) mRNA complete cds	Homo saplens hypothetical protein (FL (11045) mRNA	Homo sapiens armadillo repeat gene deletes in vercerdirferial swadroms (A DV/CE) = DNA	th60e12.x1 NCI_CGAP_Ov23 Homo saplens cDNA clone IMAGE:2122702 3' sImiliar to TR:Q85560 Q85560	hn98d02.X1 NCI_CGAP_Co14 Homo saplens cDNA clone IMAGE:3035907 3' similar to SW:COPG_BOVIN P53820 COATOMER GAMMA SUBLINIT -
IGIG LAUI FIU	Top Hit Database Source	NT	NT	L	Į.	Ϋ́	Ā	N-	NT	LN.	μ	EST HUMAN	EST HUMAN	EST HUMAN	EST HUMAN	EST HUMAN	EST HUMAN	ΝŢ	Ν	ΙΝ	EST HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	TN	Ę	LN	L	ΝŢ	NT.	EST_HUMAN	EST HUMAN
5	Top Hit Acession No.	11421211 NT	11421211 NT		AF245219.1	1.0E-80 AF245219.1	1.0E-80 D63479.2	11841278 NT	11641276 NT	11417901 NT	AB020640.1	A1251752.1	AI251752.1	BE394525.1	AI822115.1	BE256829.1	BE256829.1	4501848 NT	4501848 NT	AF038660.1	AA360017.1	BE396092.1	BF679022.1	BF679022.1	BE268042.1	AB007923.1	AB007923.1	M60316.1	M60318.1	9506634 NT	11526341 NT	AI521435.1	AW779612.1
	Most Similar (Top) Hit BLAST E Value	1.0E-80	1.0E-80	1.0E-80	1.0E-80	1.0E-80	1.0E-80	1.0E-80	1.0E-80	1.0E-80			8.0E-81			6.0E-81	6.0E-81	6.0E-81	6.0E-81	6.0E-81	6.0E-81					į				5.0E-81	5.0E-81	_	4.0E-81
	Expression Signal	2.84	1.72	1.72	1.21	1.21	0.95	5.25	5.25	1.57	3.08	1.46	1.46	8.46	3.58	5.26	5.26	2.1	2.1	16.0	1.36	1.61	2.29	2.29	2.8	1.83	1.83	0.77	0.77	2.23	1.3	2.03	1.31
	ORF SEQ ID NO:		34435	34436	35019								36516				29727	30630	i	33253	34989	37723	31041	31042	27682	34143	34144	35383	35384	37491	37764	26109	27270
	Ø									24719	24853	23278	23278	23772	19839	17092	17092	18009	18009	20161	21824	24390	24803	24803	14942	21005	21005	22201	22201	24176	24423	13461	14555
	Probe SEQ ID NO:	8130	8601	8601	9185	9185	10325	10548	10548	12289	12498	10583	10583	11102	7152	4354	4354	5201	5201	7489	9136	11800	12430	12430	2214	8311	8311	9548	9548	11577	11839	989	1815

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Top Hit Descriptor	Homo sapiens mRNA for KIAA1045 most in a committee of the	ws90h03.x1 NCI_CGAP_Co3 Homo sapiens cDNA clone IMAGE:2505269 3' similar to TR:043815 043815 carbiarini.	Line contact and the second se	Thomas explores rabs interacting protein variant 2 mRNA, partial cds	nomic sacients rabs interacting protein variant 2 mRNA, partial cds	nomo septens nypometical protein FLJ20220 (FLJ20220), mRNA	Homo sapiens calcium channel, voltage-dependent, L type, alpha 2/delha subunit (CACNA2) mRNA	Homo sapiens ets variant gene 1 (ETV1), mRNA	Human mRNA for amyloid A4(751) protein	Human cone photoreceptor cGMP-phosphodiesterase alpha' sulvinit gans, and a	Human cone photorecentor cCAMP-nhosephodiestorate appra subunit gener, excits 2 and 3	Homo sablens mRNA for Death-according a supplied supplied supplied to the sablens mRNA for Death-according a supplied su	Home serieses ligased DMA ATE ALL 18 19 10 10 10 10 10 10 10 10 10 10 10 10 10	Homo sapiens act. Commission A debit (LICI), mKNA	Homo saplens and Commune A debut	Homo sanjens vestrie fraffichting material (ACADB), mRNA	Homo employe useriols to delicate and the secretary many control of the secretary many to the secretary to the secretary many to the secretary many to the secretary to the secretary many to the secr	Thems employee vestice unfailtening protein seezzb (SECZZB) mRNA	Homo saplens calcineurin binding protein 1 (KIAA0330), mRNA	Homo explore actinization of the property of t	Home sapiens beta-ureidopropionase (LOC51733), mRNA	Homo sapiens beta-urelgopropionase (LOC51733), mRNA	Torno septembritation in macrocytic anemia (TCN2), mRNA	Tronin sapiens NF2 gene	Homo sapiens will AA (A) III AA) Days	The contract of the complete case	norno sapiens pielotrophin (heparin binding growth factor 8, neurite growth-promoting factor 1) (PTN) mRNA	Homo sapiens pleiotrophin (heparin binding growth factor R perintle growth scanners of contractions of the	201474072F1 NJH MGC 88 Home cominger China III and China II	601474072F1 NIH MGC 68 Home sanions of All All 11 11 11 11 11 11 11 11 11 11 11 11 1	Section of Coal Visit and Coal Visit	ingocories for Aldrid Hond sapiens cUNA clone IMAGE:2952384 3'	nomo sapiens nypometical protein (LOC55886), mRNA			
Top Hit Database Source	LN	NAME IN FACE	TIN TIN	HZ	E L		LΝ	F	LN.	IN	FX	Į.	L	Į.		Ę	5		; -	: 5	-	Į	I-N	FZ				<u>_</u>	EST HUMAN	Г	T	- 10.01				
Top Hit Acession No.	AB037766.1	AW004608 1	Γ		22,200	6070700	4757893 NT	1420544			U20197.1	4.0E-81 AB018001.1	25281	11439065 NT	11439065 NT	4759085 NT	4759085 NT	11417862 NT	11417862 NT	11417871 NT	11417871 NT	11417974 N	18000 1	18000 1	F077188 1	000	100000	6280	784636.1	Γ		82	liconomo			•
Most Similar (Top) Hit BLAST E Value	4.0E-81	4.0E-81	4.0E-81	4.0E-81	4 0F-81		4.0E-81	4.0E-81		4.0E-81	4.0E-81	4.0E-81	4.0E-81	4.0E-81	4.0E-81	4.0E-81	4.0E-81	4.0E-81	4.0E-81	4.0E-81	4.0E-81	4.0E-81	3.0F-81 V	3.0F-81 V	3.0E-81 A	3.0E.81		3.0E-81	2.0E-81 BE784636.1	2.0E-81 BE	2.0E-81 A	2.0E-81				
Expression Signal	3.58	0.98	2.26	2.26	1.33		1.11	0.57	ac c	3.43	3.43	6.1	1.53	0.71	0.71	3.2	3.2	3.63	3.63	1.53	1.53	4.82	12.36	12.36	1.23	583		5.83	2.97	2.97	0.71	9.0				
ORF SEQ ID NO:	28580		29509	29510	29733	1	32834	34038	2 2	34271	34272	34980	35861	35935	35936	37086	37087	30731	30732	31030	31031	31004	26658	26659	27832	28400		28401	28254	28255	29144	33678				
Exen SEQ ID NO:	15931	16372	16881	16881	17098	4000	300	20870	200	2133	21135	21814	22649	22718	22718	23807	23807	25280	25280	24831	24831	24911	13993	13983	15093	15755		13/32	13805	15605	16507	20552				
Probe SEQ ID NO:	3168	3619	4139	4139	4360	24.77	7200	8185	3 64.69	3 5	3	9128	1993	10070	10070	1140	11140	11928	11928	12463	12463	12597	1244	1244	2371	2989		5867	3	2837	3755	7857				

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Exon DRF SEQ Included No. Exon DRF SEQ Included Signal Included No. Most Similar Database Included No. Top Hit Database Included No.	Γ		_		_	_	_	_	T=		_	_	_	_			_			***	e, t		*,1341	r		4		-T	,,,	الساا	4!!	ï.
Exon ORF SEQ Expression Nost Similar Top Hit Acesson Top Hit Top Hit Acesson Top Hit Top Hit Acesson Database 14149 26829 1.13 1.0E-81 AV/960968.1 EST_HUMAN 1.0E-81 AV/96096.1 AV/9	Top Hit Descriptor	23.83 Linear and Control of the Cont	FST37270 MAGE received to MAGE 14 A ST 17 A ST	2445h09.r1 Soares_pregnant_uterus_NAHPU Homo sapiens cDNA clone IMAGE:485825 5's lmiler to	PIR:S52437 S52437 CDP-diacy/glycerol synthase - fruit fly;	IZ45504.31 NCT_CGAP_Brn52 Homo saplens cDNA clone IMAGE:2291526 5	Homo socioses (ACO2) gene, expn 3	Homo septiens polymerase (DNA directed), gamma (POLG), mRNA	2/85d06.r1 Soares_NHMPu_S1 Homo saplens cDNA clone IMAGE:682475 5' similar to SW :PRI2 HUMAN	Labora Continue Continue See RED SUBUNIT	Turin sapiens arm-repeat protein NPRAP/neurojungin (CTNND2) mRNA, partial cds	Notice Septembram repeat protein NPRAP/neurojungin (CTNND2) mRNA, partial cds	Jamosovan Inn. June C. So Homo sapiens cDNA done IMAGE:4274535 6	John Septembly Principal Research 1C, calmodulin-dependent (70kD) (PDE1C), mRNA	Tomo saplens caveolin-1/-2 locus, Contig1, D7S522, genes CAV2 (exons 1, 2a and 2h), CAV1 (exons 1, and		10mo sapiens polymerase (DNA directed), gamma (POLG), mRNA	201642051F1 NIH_MGC_56 Homo saplens cDNA clone IMAGE:3930228 57	01342180F3 NIH MGC_56 Hamo sapiens cDNA clone IMAGE:3930228 5'	c14d06.s1 Statagene Hel a cell s3 937216 Homo conjunction of the cell s4	W.YB36_YEAST P38126 HYPOTHETICAL 60.5 KD PROTEIN IN RPS101-RPS13 INTERGENIC	METABORE I III 1000 0 0 0 0 0 0 0 0 0 0 0 0 0 0	01377339FT NIH _MGC_9 Homo sapiens cDNA clone IMAGE;3838280 5	WAS ANIONED AND CO. 9 Homo sepiens cDNA clone IMAGE:3838280 5	Omo saniona apple: Ill.	Idea of the second of the seco	RO CTANGE SECTION AS OF SECTION SECTIO	C122220 MA OF	A SYSTAM CE RESEQUENCES, MAGF Home sapiens cDNA	amo semiens phorball. 7:11.11.11.11.11.11.11.11.11.11.11.11.11.	Homo sabiens HSPC288 mRNA nertial of a mental and mental and rediting protein) (DJ742C19.2), mRNA	יייין, אמו וומיין, אמיין, אמו וומיין, אמייין, אמייין, אמייין, אמייין, אמייין,
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Exan ORI NO: DOI NO: DOI NO: DOI 14149 17214 17214 18265 1824 18265 1827 1827 1828 1827 1828 1827 1828 1828 1827 1828	Expression Signal	1.13	1.07	3.56	66.9	4.69	4.1	4.1	0.85	3.47	3.47	1.81	0.59	0.59	0.87	8 45	5.09	5.09	5.06		1.50	3.27	3.27	1.59	2.9	1.97	1.97	1.72	1.99	4.13	3.6	
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	Probe SEQ ID NO:	1402	3644	4479	4600	5157	5269	5269	5415	5568	2268	6054	6453	6453	6639	7669	9676	9676	6986		10003	10005	10005	10405	10860	11029	11029	11240	11507	12132	12	

Page 381 of 536 Table 4

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Single Exon Probes Expressed in Brain	Top Hit Descriptor		nomo sapiens HSP/C288 mRNA, partial cds	Human CRFB4 gene, partial cds	Human CRFB4 gene, partial cds	Human CRFB4 gene, partial cds	Homo saplens mRNA for KIAA1327 profess partial cats	Homo saplens glutathlone peroxidase 5 (epididymal androgen-related protein) (GPX5), transcript variant 2, mRNA	The state of the s	FOUND SEPTEMBLE HYDOURENCES PROBEN FLY20461 (FLY20461), mRNA	SO 14605 FILLINIT MISC_DO From Sapiens CDNA clone IMAGE:3862086 5'	SECOND STATE STATE OF THE SECOND SECO	necest, strangere sonzo bran S11 Homo saplens cDNA clone IMAGE:969342 3'	Homo conjection of the control of th	OV2-HT0540 120000 252 509 LT0540 1	CV2-HT0540 120000 362 508 LT2512 L	Himan von Willebrand Scales 2010	Presentation and Brings Home saples and B Presentation (CGAP_Brings Home saples cDNA clone IMAGE:2467624.3' similar to TR:075276	Imm senion monomile 4 sees	ochoris presentiti-i gene, exchs 1 and 2	From Sapiens amyord beta (A4) precursor protein (protease nexin-II, Alzheimer disease) (APP), mRNA	Homo capients transform:	menta controls described grown ractor beta-activated kinase-binding protein 1 (TAB1), mRNA	Homo Sapiens emyloid beta (A4) precursor protein (protease nexin-il, Alzheimer disease) (APP). mRNA	al 23e05.s1 Soares_testis_NHT Homo sapiens cDNA clone 1343648.3'	RCG-P10001-190100-021-B02 PT0001 Homo sapiens cDNA	Homo sapiens chromosome 21 segment HS21C085	RC1-BN0005-260700-018-g04 BN0005 Homo saplens cDNA	nmo saniane adamidata analasa andi	Homo sapiens are instruction to the cyclese activating polypeptide 1 (pituitary) receptor type I (ADCYAP1R1) mRNA	composition of the state of the
gle Exon Prob	Top Hit Datebase Source	F.V				۲	TN			T HI IMAN	HIMAN	Т	Т	Т	HIMAN	Т	T	200	T		T HI IMAM	NUMBER OF THE PROPERTY OF THE			HUMAN	HOMAN		EST_HUMAN R			
<u> </u>	Top Hit Acession No.	8 0F-82 AF161406 1	100080 4	8.0E-82 U08988.1	U08988.1	U08988.1	8.0E-82 AB037748.1	6715601NT	R923432 NT	7.0E-82 BF035327 1	T	Γ		Ī	T					90.00	BE005705.1	74702	75034ee	2017	1	Ī		BE813232.1	4501922 NT	5453811 NT	
	Most Similar (Top) Hit BLAST E Value	8 OF 82	20 30 8	9.0E-82	0.0E-82	8.0E-82	8.0E-82	8.0E-82	8.0E-82	7.0E-82	7.0E-82	7.0E-82	5.0E-82	4.0E-82	4.0E-82	4.0E-82			4.0E-82	3.05.82	3.0E-82	3.0E-82	3.05.82		3.0E-92.A	3.0E-02 A	3.0E-82.A	3.0E-82 B	3.0E-82	3.0E-82	
	Expression Signal	2.45	7	- 6	3 3	0.84	1.42	1.43	0.9	1.7	1.2	1.71	0.71	49.82	8.0	0.8	0.65	11.61	5.05	21.65	3.11	5.7	10.65	18 58	4 28	270		-B:	1.53	2.52	
	ORF SEQ ID NO:	25452	L				26907	27089	29585		28216	37682	29473	27103	30915	30916	31381	37633		25721	26110	26203	26290		28758	26881	272.44	1,04	27459		,
	SEQ ID NO:	12839	L	L	L	1	142271		16960	14180	15474	24350	16847	14412	18208	18208	18466	24310	24773	13079	13462	13542	13620	13799	14082	14197	14634	3	14735	16028	
	Probe SEQ ID NO:	104	257	795	867		*	1654	4219	1433	2769	11759	4104	1666	5409	5409	5671	11716	12374	271	687	770	850	1039	1333	1450	1804		2000	3266	

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Top Hit Descriptor	Zn83b04.r1 Stratagene lung carcinome 937218 Home serviene CNNA close INAA CE sessara serviene	SW:PAGT_BOVIN Q07337 POLYPEPTIDE N-ACETYI GAI ACTOSAMINY TRANSEEDASE	Homo sapiens ankyrin-like with transmembrane domains 1 (ANKTMA) mRNA	Homo septens contactin 6 (CNTNs) mBNA	Homo sablens contactin 6 (CNTNR) PDNA	Homo sepiens mRNA for KIAA1077 motors	Homo saniens mBNA for KIA 41077	Homo seplens m DNA for KIA Andron - Lt.	Homo saciens mBNA for KIA 4 0000 protein, partial cds	DKF2n434M117 r1 434 (smooths block) United (s	Homo seniens DNA for cardoid accounted to the control of the contr	Homo sapiens of the commercial protein, complete cds	Homo saniens mBNA for KIA 84008	Homo sapiens mRNA for KIAA 4006 makin nortical ada	Homo sapiens wbscr1 (WBSCR1) and wbscr5 (WBSCR5) genes, complete cds, alternatively spliced and	Home control of Subunit 2 (KFC2) gene, complete cds	Home septens which necrosis factor receptor superfamily, member 5 (TNFRSF5) mRNA	Homo serviens mPNA for VIA A A 2727	Homo serions EAMAA and a fine of the contract	m21005 x1 Spares NFI T GRC S1 Home serior and size of	Homo sapiens hypothetical protein FL/20128 /FL/20128 mRNA	Homo saplens slit (Drosophila) homolog 3 (SL 173) mRNA	Homo sapiens microrchidia (mouse) homolog (MORC), mRNA	Homo sapiens microrchidia (mouse) homolog (MORC), mRNA	Human endogenous retrovirus-K, LTR U5 and gag gene	Human endogenous retrovirus-K, LTR U5 and gag gene	Homo sapiens leucy//cystiny/ aminopeptidase (LNPEP), mRNA	Homo saplens leucy/cystiny/ aminopeptidase (LNPEP), mRNA	Homo sapiens CAGF9 mRNA, partial cds	Homo sapiens CAGF9 mRNA, partial cds	Homo sapiens EGF-like repeats and discoidin Like domains 3 (FDII 3) mRNA	CANAL CENTRAL
Top Hit Database Source		EST_HUMAN	LN L	N	LN	NT	FZ	Į.	LN	EST HUMAN	ų	LZ	Z	ΙN	1					T HUMAN												
Top Hit Acession No.		2 AA135979.1	11425206 NT	11432889 NT	11432889 NT	3.0E-82 AB029000.1	3.0E-82 AB029000.1	AB023216.1	Γ		D87675.1	4504118 NT	AB029019.1		AF04555K 1	7580	4507580 NT	AB018270.1			8923130 NT	11321570 NT	7657340 NT	7657340			11417191	1417191		U80736.1	5031660 NT	
Most Similar (Top) Hit BLAST E Value		3.0E-82	3.0E-82	3.0E-82	3.0E-82	3.0E-82	3.0E-82	2.0E-82	2.0E-82	2.0E-82	2.0E-82		2.0E-82		2.0E-82.4		2.0E-82			2.0E-82	2.0E-82	2.0E-82	2.0E-82		2.0E-82 Y	2.0E-82 Y	2.0E-82		_			TO C
Expression Signal		0.98	3.14	0.88	0.88	3.23	3.23	2.55	2.55	1.21	1.25	1.17	1.01	1.01	2,85	1.46	1.48	5.65	4.73	0.91	0.85	2.18	0.45	0.45	48.	2	127	1.27	4.45	4.45	1.91	102
ORF SEQ ID NO:			33878	34287	34288	35575	35576	25990	25991	27121	29210	29575	29890	29891	30172	30352	30353	30874	31827		33482	34035	34397	34398	25070	1/900	3/18/	37188	37233	37234	37670	-
Exon SEQ ID NO:		┸	\perp			- 1					16578	16949	17256	17256	17547	17742	17742	18184	18861	25426	20369	20898	24.260	22657	22857	1000	3000	2000 0000 0000 0000 0000 0000 0000 000	O#657	7384D	24341	2440181
Probe SEQ ID NO:	7007	4004	7000	404	8454	9724	9724	283	583	1881	3827	4208	4521	4521	4816	5021	5021	5384	6082	7581	7,05	4020	87.8	1000	1000	1132	1337	11270	1732	112/8	26/17	2

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Top Hit Descriptor	zilltalla 1 Scorres fetal lines - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	Homo contour CDV / Later a liver spice of 1 NFLS S1 Homo sapiens cDNA clone IMAGE:429568 5'	Home sapiens SAT (sex determining region Y)-box 10 (SOX10), mRNA	And Stores Illean on a direct number associated protein-5 (MDA5), mRNA
detail live calcast Alici Scientific | QV4LT0016-271299-068-h11 T0016 Homo earliens cDNA clone IMAGE:295823 3'

 | not2h01.s1 NCj_CGAP_Phet Homo sapiens cDNA clone IMAGE:1100497.3' similar to contains Alu | 7p37807.x1.NOI_CGAP_Pr28 Homo saplens cDNA clone IMAGE:3647893 3' similar to TR:Q9Y3I6 Q9Y3I6 | USZUTILI,
 | Homo serviens have a feet of the feet of t | Homo carienc transcription factor CA150 (CA150) mRNA | Human platelet Givcopotein IIb (GPIIb) gene avone 2-20 | hf31h03.x1 Soares_NFL_T_GBC_S1 Home saplens cDNA clone IMAGE;2933525 3' similar to | OVA STO24 48400 027 85 STO22 11 | Homo content of the c | Home separals critical risk of unknown mixtha. Home separals VAMP (vesicle-associated membrane protein)-associated protein A (33kD) (VAPA) mRNA, and translated protein A (33kD) (VAPA) mRNA, | Anno canismo function
 | Homo septembring being gene, exons 1-50 | Homo services mismosin (M. 1944). O Gerico, A | Homo sapiens pre-mRNA sultring fector similar to Section 5.2 (1997) | Homo sapiens pre-mRNA splicing factor similar to S. cerevistae Prp18 (PRP18), mRNA |
| Top Hit
Database
Source | EST HIMAN | LO LO | Į. | FST HIMAN | EST HIMAN | L | LZ | LZ. | EST HUMAN | LZ | EST HUMAN | EST HIMAN
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| Top Hit Acession
No. | AA011278.1 | 11418097 | 11545921 | BE885106.1 | BE064386 1 | AB011110.2 | AB037838.1 | AB014562.1 | BF515938.1 | AL163209.2 | 3F672220.1 | 3E253347.1
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 | 4505314 | 11430647 | 11430647 NT |
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Value | 2.0E-82 | 2.0E-82 | 1.0E-82 | 1.0E-82 | 1.0E-82 | 1.0E-82 | 1.0E-82 | 1.0E-82 | 1.0E-82 | 1.0E-82 | 9.0E-83 | 9.0E-83
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 | 6.0E-83 | 6.0E-83 | 6.0E-83 |
| Expression
Signal | 3.47 | 1.95 | 1,14 | 0.77 | 3.1 | 1.26 | 1.13 | 0.59 | 1.17 | 2.34 | 4.51 | 0.53
 | 3.33 | 5.63 | 0.97

 | 1.88 | 89.9 | 99.0 | 4. | 4. | 1.98
 | 6.5 | 0.71 | 1.08 | 2.02 | 1.52 | 227
 | 2.85 | 2.34 | 2.34 |
| ORF SEQ
ID NO: | | | 25985 | | | | | 35390 | | 36578 | 34449 | 36039
 | 26816 | 27115 | 26759

 | | | 31702 | 37634 | 37635 | 25828
 | 27224 | 28432 | - | 30641 | 31674 | 33160
 | 35413 | 35517 | 35518 |
| SEQ ID
NO: | | | | | | | 21533 | 22206 | 22793 | 23337 | 21307 | 22822
 | 14139 | 15523 | 14084

 | 15635 | 17497 | 18742 | 24311 | 24311 | 13179
 | 14520 | 15783 | 15812 | 18019 | 18716 | 20079
 | 22228 | 22321 | 22321 |
| Probe
SEQ ID
NO: | 12485 | 12775 | 578 | 1186 | 1263 | 1264 | 8841 | 9553 | 10145 | 10646 | 8615 | 10174
 | 1392 | 1676 | 1335

 | 2868 | 4765 | 2960 | 11717 | 11717 | 394
 | 1779 | 3017 | 3046 | 5211 | 5933 | 7401
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| | Exon ORF SEQ Expression NO: Crop) Hit Acession Signal Top Hit Acession No. Top Hit Acession No. Top Hit Acession No. Top Hit Acession No. Top Hit Acession No. | Exon NO: ORF SEQ ID NO: Expression Signal (Top) Hit Top Hit Acession No. Top Hit Acession Source Top Hit Acession Source NO: Signal BLASTE No. No. Source Source 24844 3.47 2.0E-82 AA011278 1 EST HIMAN | Exon
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	Top Hit Database Source	EST_HUMAN	ΤN	Ę	EST HUMAN	L	EST HUMAN	EST HIMAN	LN	To a	TO LOUGH	Į.				EST_HUMAN	Τ							F	FZ.			<u> </u>		
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	Most Similar (Top) Hit BLAST E Value	6.0E-84 A	6.0E-84	6.0E-84	6.0E-84 BE	6.0E-84	6.0E-84 BE	5.0E-84 AA	5.0E-84	5.0F.84	5.0E-84	5.0E-84	5.0E-84	5.0F-84		4.0E-84	4.0E-84	4.0E-84	4.0E-84	4.0E-84 AFC	4.0E-84	4.0E-84	4.0E-84	4.0E-84 AB0	3.0E-84 AF0	3.0E-84	3.0E-84 A	3.0E-84 A	3.0E-84 AF014459.1	
	Expression Signal	1.87	1.04	1.04	2.94	76.0	2.37	0.71	1.82	0.59	3.17	1.77	1.77	4.1		2.19	1.79	1.36	1.36	1.88	14.38	1.21	1.21	4.51	1.24	1.15	2.41	1.07	5.2	
	ORF SEQ ID NO:	30943	31282					26121		31758	37438	37570	37571	37738		26812	30242	31168	31169	31925	33319	34647	34648	36759	25752	27401	27460	28977	29121	
	SEQ ID NO:	18230	18371	18371	20053	20259	20667	13472	15779	18796	24133	24249	24249	24401		14136	17624	18274	18274	18952	20217	21501	200 100 100 100 100 100 100 100 100 100	23517	13112	14688	14736	16333	16483	
	Probe SEQ ID NO:	5431	5574	5574	7373	7591	7972	697	3013	6015	11533	11652	11652	11813		1389	4897	5475	5475	6175	7547	8808	8088	10835	800	1923	2007		3731	

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			_		_	_					_							τ		•			_		- ~			•		
Top Hit Descriptor	wu20d05.x1 Soares_Disckgraefe_colon_NHCD Homo sapiens cDNA clone IMAGE:2520585 3' similar to	CM1-BT0795-190600-272-608 BT0795-U	CM41-BT0725-190600 272 F08 BT0725 IIII	Homo septenc myelin transaction of 10785 Homo septens CLINA	Histories DNA for and construction of a first file (WT 11-1) mRNA, complete cds	ULH-Bid-and-no-0-11 I of NCT CGAB Cirks Home	UI-H-BI4-ani-9-02-01.31 NOI CGAB Sirks Home Sapiens culva cione IMAGE:3084963 3	vr56e11s1 Spares fetal liver spleen 1NFI S. Homo contract and the contract and cont	am87009 x1 NCI CGAP 1 15 Home emisse china class (144.0 Europe in 144.0 Europe	Homo sabiens chromosome 24 seament INSA CONA	Homo saplens chromosome 21 segment HS210004	AU120280 HEMBET Homo sapiens cDNA clone HEMBETONN339 FT	ym49e11.rf Soares Infant brain 1NIB Homo septens cDNA clone IMAGE:51383 5' similar to SP.APOH_RAT P26844 BETA-2-cit YCOPROTFINI	nae30a02.x1 Lupski_sympathetic_trunk Homo sapiens cDNA clone IMAGE:4090251 3' similar to TR:09UGS3 OBUGS3 DIJSAGS3 1.	nae30e02.x1 Lupski_sympathetic_trunk Homo saplens cDNA clone IMAGE:40902513' similar to TR-OGLIGS3 Dui issa n insects a	Homo sapiens infersed in short isoform (TSN) mBN/ committee and	Homo sapiens tyrosine 3-monoxygenase/tryptophan 5-monoxygenase activation protein, zeta polypeptide	Hono saniens complement commenced # 7051 - DAIA	in 85h11 s1 Shotonana schira histo 241 !	601308006F1 NIH MGC 44 Homo sanians of NA Alma MACE 38885 3	Homo sabiens pericentriolar material 1 (DCMA) mRNA	nw12e06.s1 NCI CGAP SS1 Homo seniens cDNA class MAACE 12204.08 21	Homo sapiens 959 kb contia between AMI 1 and CR94 on characters 21-22	DKFZp434N0323 r1 434 (synonym hises) Home senions o'DNA alone DKFZ-124N0323 r1 434 (synonym hises)	DKFZp434N0323 r1 434 (synonym: https:// Homo septems cDNA close DKFZp424N0323 5	Homo sepiens 959 kb confin between AMI 1 and CERT or because 101 145-11025 3	Homo saplens caterin (cadherin-associated protein) alaka 2/CTNNA 2/ TONIA			
Top Hit Database Source	EST HUMAN	FST HUMAN	EST HIMAN	NT	TN	EST HUMAN	EST HUMAN	Т	Т	Т	¥	T HUMAN				Т			T HUMAN	Т	Т	EST HUMAN		EST HUMAN	Г	Г				
Top Hit Acession No.	A/983801.1	BE695397.1	BE695397 1	AF036943 1	X89211.1	BF511575.1	BF511575.1	H63370.1	AI298674.1		AL163204.2		H22841.1	BF448000.1			4507952 NT	11427631 NT	AA984379.1		7197	AA720851.1	AJ229041.1	AL043314.2	AL043314,2	AJ229041.1	7656998 NT	11434422 NT		
Most Similar (Top) Hit BLAST E Value	3.0E-84		2.0E-84				2.0E-84	2.0E-84	2.0E-84		2.0E-84 /	2.0E-84 /	2.0E-84	2.0E-84		1.0E-84/	1.0E-84	1.0E-84		1.0E-84 E	1.0E-84	1.0E-84	1.0E-84	1.0E-84	1.0E-84 A	1.0E-84 A	1.0E-84	1.0E-84		
Expression Signal	3.55	6.94	6.94	9.31	0.77	0.92	0.92	0.75	1.35	0.49	0.49	0.81	0.61	8	8	1.89	20.64	-	3.17	1.92	1.13	2.46	5.01	3.53	3.53	2.67	1.15	0.98	!	
ORF SEQ ID NO:		27563	27564	28362	28378	30952	30953	32310		34118	34119	35094	35476	31100	31101	25748	25953		26685	27508	27686	29123	29752	30017	30018	29752	30483	31551		
Exon SEQ ID NO:	23473	14829	14829	15710	15728		П		20651	20978	20978	21924	22283	24643	24643	13108	13319	13478	14019	14781	14948	16486	17128	17385	17385	17120	17870	18619		
Probe SEQ ID NO:	10790	2098	2098	2944	2962	5439	5439	6540	7956	8284	8284	9245	9631	12159	12159	304	536	703	1270	2048	2220	3733	4383	4651	4651	4855	5153	5830		

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00667 uterine water channel≕28 kda erythrocyte integral membrane protein homolog [human, uterus, mRNA, 1340 Homo sapiens DEAD/H (Asp-Glu-Ala-Asp/His) box polypeptide 10 (RNA helicase) (DDX10), mRNA 2462b01.r1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE.726889 5' similar to TR:G1336769 G1335769 GAG-POL POLYPROTEIN Homo sapiens DEAD/H (Asp-Glu-Ala-Asp/His) box polypeptide 10 (RNA helicase) (DDX10), mRNA Homo septens nuclear transport factor 2 (placental protein 15) (PP15) mRNA Homo septens Ca2+-binding protein CABP3 (CABP3) gene, exon 6 and partial cds Homo septens ubiquitin specific protease 13 (isopeptidase T-3) (USP13) mRNA Homo sapiens NGFI-A binding protein 1 (ERG1 binding protein 1) (NAB1), mRNA Homo saplens heat shock transcription factor 2 binding protein (HSF2BP), mRNA Homo saplens chromosome 21 segment HS21C068 Homo sapiens purinergic receptor P2X-like 1, orphan receptor (P2RXL1), mRNA Homo sapiens ubiquitin specific protease 13 (isopeptidase T-3) (USP13) mRNA Homo saplens glutamate receptor, lonotrophic, AMPA 4 (GRIA4), mRNA Homo saplens DKFZp434P211 protein (DKFZP434P211), mRNA Homo sapiens polymerase (DNA directed), alpha (POLA), mRNA Top Hit Descriptor Homo sapiens ribosomal protein L27 mRNA, complete cds Homo sapiens aconitase 2, mitochondrial (ACO2), mRNA Homo sapiens nuclear protein Skip mRNA, complete cds Homo sapiens nuclear protein Skip mRNA, complete cds Homo sapiens chromosome 21 segment HS21C080 Homo sapiens chromosome 21 segment HS21C006 Homo sapiens chromosome 21 segment HS210084 nt) Novel human gene mapping to chomosome 13 Novel human gene mapping to chomosome 13 Homo sapiens MSTP030 mRNA, complete cds Homo saplens leupaxin (LDPL), mRNA Human plasminogen gene, exon 7 Human plasminogen gene, exon 7 Single Exon Probes Expressed in Brain Top Hit Database · Source · EST_HUMAN 토토토 E 4507848 NT F 눋 11438573 NT 눋 11438573 NT Top Hit Acession No. 4507848 N 11417812 11430846 5031984 11418185 5901979 4758669 7657020 AL049784.1 AL049784.1 AL163209.2 1.0E-84 AL049784.1 AL163268.2 9.0E-85 AL163280.2 6.0E-85 AA403053.1 5.0E-85 AL163284.2 9.0E-85 AL163209.2 9.0E-85 U51432.1 9.0E-85 U51432.1 9.0E-85 47 1.0E-84 S73482.1 9.0E-85 M33282.1 L05094.1 1.0E-84 1.0E-84 1.0E-84 1.0E-84 1.0E-84 1.0E-84 1.0E-84 1.0E-84 1.0E-84 (Top) Hit BLAST E 9.0E-85 7.0E-85 Most Similar 6.0E-85 6.0E-85 Value 1.66 1.86 1.26 2.42 3.05 1.08 2.34 3.6 1.06 2.39 1.23 3.2 1.23 96'0 3.35 3.35 1.49 Expression Signal ORF SEQ ID NO: 32552 32553 32753 33130 35519 30588 30589 33229 36368 31096 26783 27108 30177 30208 37300 37690 37301 Exon SEQ ID 18875 19525 19699 17900 20137 17900 23142 24638 13810 13712 13810 14319 14415 14319 14108 16966 23998 23998 24357 15056 ÿ SEQ ID 7007 6097 6781 7501 9435 9690 12046 12151 9690 10496 1572 946 1670 4225 11766 2332 1051 1360 4856 11642 11392 11392 1572 ö

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1/3/2/3		_					_												_	_			P	CI	I/L	150	11/	UU	00	/	
	1	3		8	Ţ	300		Ī			Ī	Ī	Ī			Ī		7	ğeil	rí	1	1 %		į			1		<u> </u>	E	l . T
Top Hit Descriptor	Homo saplens T-type calcium channel ainhad suhunit Alphadaa isrdorm (CACNA41) mDNA	1601458646F1 NIH MGC 66 Home saniens cDNA clane IMAGE 3862402 5	601458646F1 NIH MGC 66 Homo sapiens cDNA clone IMAGE:3862402 5	Homo sapiens mannosidase, beta A, lysosomal (MANBA) gene, and ubiquitin-conjugating enzyme E2D (UBE2D3) genes, complete cds	Homo sepiens T-type calcium channel alpha1 subunit Alpha11-a isoform (CACNA1) mBNA	1602084730F1 NIH MGC 83 Homo sabiens cDNA clone IMAGE-4240A87 51	602084730F1 NIH MGC 83 Homo saciens cDNA clone IMAGE:4249087 5	RC1-BT0623-120200-011-c07 BT0623 Homo sapiens cDNA	Homo saplens protein phosphatase 2A BR gamma subunit gene, exon 6	ye53g09.r1 Scares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:121504 5	601189704F2 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3533616 5'	Homo sapiens F-box only protein 24 (FBXO24), mRNA	Homo sapiens F-box only protein 24 (FBXO24), mRNA	Homo sepiens lecrimal proline rich protein (LPRP), mRNA	Homo saplens met proto-oncogene (hepatocyte growth factor receptor) (MET), mRNA	Homo sepiens KIAA0793 gene product (KIAA0793), mRNA	Horno saplens KIAA0793 gene product (KIAA0793), mRNA	Homo saplens mRNA for dynein heavy chain (DNAH9 gene)	Homo sapiens GTPase regulator associated with the focal adhesion kinase pp125(FAK); KIAA0621 proteins (KIAA0621)	Homo saniens DENN mRNA complete cde	Homo saplens CGI-81 protein (LOC51108), mRNA	Homo sapiens phospholipase C, epsilon (PLCE), mRNA	Homo saplens small nuclear ribonucleoprotein polypeptide B" (SNRPB2), mRNA	Homo sepiens small nuclear ribonucleoprotein polypeptide B" (SNRPB2), mRNA	Homo sepiens phospholipid scramblase mRNA, complete cds	RC1-HT0268-031299-012-f09 HT0268 Homo saplens cDNA	Homo sapiens EGF-like repeats and discoldin I-like domains 3 (EDIL3) mRNA	Homo sapiens mRNA for KIAA1107 protein, partial cds	Homo sapiens mRNA for KIAA1107 protein, partial cds	Homo saplens Ran GTPase activating protein 1 (RANGAP1), mRNA	
Top Hit Database Source	LZ	EST HUMAN	EST HUMAN	FN	Ę	EST HUMAN	EST HUMAN	EST HUMAN	LN	EST_HUMAN	EST_HUMAN	FZ	FZ	LN	LZ.	N	LZ LZ	FZ	ļ L	L	¥	F	Þ	Ę	Ę	EST HUMAN	Z	N.	LN L	TN	
Top Hit Acession No.	AF211189.1	3F035674.1	3F035674.1	\F224669.1	AF211189.1	4.0E-85 BF677910.1	JF677910.1	4.0E-85 BE079263.1	F096157.1	97495.1	E267189.1	11024695 NT	11024695 NT	11436001 NT	11422024 NT	7662309 NT	7662309 NT	J404468.1	11416870 NT	44953.1	11525829 NT	11430889 NT	11421422 NT	11421422 NT	Γ	E150392.1	5031660 NT		3.0E-85 AB029030.1	11418177 NT	
Most Similar (Top) Hit BLAST E Value	5.0E-85	5.0E-85	5.0E-85 B	5.0E-85	5.0E-85	4.0E-85	4.0E-85	4.0E-85	3.0E-85 A	3.0E-85 T	3.0E-85 B	3.0E-85	3.0E-85	3.0E-85	3.0E-85	3.0E-85	3.0E-85	3.0E-85 A	3.05-85	3.0E-85 U	3.0E-85	3.0E-85	3.0E-85	3.0E-85	3.0E-85 A	3.0E-85 B	3.0E-85	3.0E-85 A	3.0E-85 A	3.0E-85	
Expression Signal	0.8	1.4	1.1	2	5.28	1.51	1.51	1.3	2.98	3.51	6.53	1.45	1.45	1.07	0.63	5.71	5.71	7.79	0.97	1.89	0.74	3.8	96'0	96.0	0.56	1.88	2.25	1.79	1.79	1.98	
ORF SEQ ID NO:		30851	30852	37005		31797	31798		26694	27215	29646	30194	30195	30777	31737	31783	31784		33055	33591	34235	34712	35257	35258	36242	36659	37403	37742	37743		
SEQ ID	17136	18166	18166	23733	17136	18836	18836	23118	14026	14515	17019	17571	17571	18120	18775	18823	18823	19553	19978	20467	21099	21568	22085	22085	23027	23418	24091	24408	24408	24937	
Probe SEQ ID NO:	4399	5364	5364	11063	12743	8058	9209	10472	1276	1773	4280	4841	4841	5316	5994	6043	6043	6853	7295	1777	8406	8877	9206	9206	10381	10730	11490	11824	11824	12640	

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WO 01/57275

JBET wi67h08.x1 NCI_CGAP_Kid12 Homo sapiens cDNA clone IMAGE.23984313' similar to contains element 245f03.s1 Soares_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:453246 3: 601897003F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4126440 5' 601897003F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4126440 5' z|45f03.s1 Soares_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:453245.3 aj88f08.s1 Soares_parathyroid_tumor_NbHPA Homo sapiens cDNA done IMAGE:1403559 37 aj88f08.s1 Soares_parathyroid_tumor_NbHPA Homo sapiens cDNA clone IMAGE:1403559 37 Homo sapiens tumor endotheilal marker 7 precursor (TEM7), mRNA Homo sapiens Taxt (human T-cell leukemla virus type I) binding protein 1 (TAX1BP1), mRNA Homo sapiens similar to rat integral membrane glycoprotein POM121 (POM121L1), mRNA wd49d03.x1 Soares_NFL_T_GBC_S1 Homo saplens cDNA clone IMAGE:2331461 3 wm94d12.x1 NCI_CGAP_UZ Homo saplens cDNA clone IMAGE:2443607 3° 801591416F1 NIH_MGC_7 Homo saplens cDNA clone IMAGE:3945818 5° qi56a07.x1 NCI_CGAP_Bm25 Homo sapiens cDNA clone IMAGE:1860468 3. Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA formo sapiens cytochrome P450, subfamily IIF, polypeptide 1 (CYP2F1) mRN/ 601109738F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3350553 5 601120778F1 NIH MGC_20 Homo saplens cDNA clone IMAGE:2967690 5 Homo sapiens tumor endothelial marker 7 precursor (TEM7), mRNA Fop Hit Descriptor Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA Homo sapiens intersectin 2 (SH3D1B) mRNA, complete cds Homo saplens galactocerebrosidase (GALC) gene, exon 15 Human DNA polymerase beta gene, exons 12 and 13 Homo sapiens CGI-201 protein (LOC51340), mRNA Homo sapiens chromosome 21 segment HS21C084 Homo sapiens apolipoprotein C-II (APOC2) mRNA Homo saplens apolipoprotein C-II (APOC2) mRNA Human Ku (p70/p80) subunit mRNA, complete cds Homo saplens plasminogen (PLG) mRNA Homo sapiens reelin (RELN) mRNA Human mRNA for T-cell cyclophiling Single Exon Probes Expressed in Brain MSR1 repetitive element EST HUMAN HUMAN EST HUMAN **EST HUMAN** EST HUMAN HUMAN EST_HUMAN EST HUMAN HUMAN EST_HUMAN Top Hit Database ST HUMAN EST_HUMAN Source 7706205 NT 5174775 NT 9966886 NT 5174775 4505880 4826977 Top Hit Acession 7657468 11417862 11417862 11421737 9889966 2.0E-85 AL163284.2 .0E-85 BE794306.1 .0E-85 BE618392.1 .0E-85 AA778785.1 .0E-86 AA860801.1 7.0E-86 AA860801.1 7.0E-86 996 2.0E-85 AF248540. 1.0E-85 BE618392.1 .0E-85 BF311552.1 .0E-85 BF311552.1 9.0E-86 BE274217.1 ġ 2.0E-85 AI760820.1 2.0E-85 A1914459.1 .0E-85 AA778785.1 2.0E-85 M30938.1 2.0E-85 AI886384.1 .0E-85 BE257917. .0E-85|AI198420. 1.0E-85 Y00052.1 2.0E-85 2.0E-85 2.0E-85 .0E-85 (Top) Hit BLAST E OE-85 Most Simila 8.28 8.28 1.53 1.18 4.51 1.22 3.18 8.42 1.08 4.38 0.97 2.86 1.28 Expression 2.41 Signal ORF SEQ ID NO: 26803 26824 26825 28435 35009 29666 29896 36847 36029 35528 36766 37696 31053 31053 36927 37618 31848 34479 SEQ ID 13777 14146 14954 4683 17039 21843 22810 15010 15113 24364 E W 23524 23599 14156 24293 13683 21335 18881 Probe SEQ ID 1383 1399 2226 2826 10842 10919 1399 3022 9173 9549 10162 2285 2392 2392 9681 10842 10919 11698 916 4854 4527 12050 1409 6103 8643 ġ

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DEST Homo sapiens similar to ectonuclectide pyrophosphatase/phosphodiesterase 3 (H. sapiens) (LOC63214), Homo sepiens chromosome 21 segment HS21C003 yz19a08.r1 Soares_multiple_sclerosis_2NbHMSP Homo sepiens cDNA clone IMAGE:283478 6* Homo sapiens Iyeophosphatidic acid acytransferase-delta (LPAAT-delta) mRNA, complete cds Homo sapiens lycophosphatidic acid acyltransferace delta (LPAAT-delta) mRNA, complete cds Homo sapiens DiGeorge syndrome critical region gene 6 (DGCR6), mRNA Homo sapiens similar to transcription factor CA150 (H. sapiens) (LOC63170), mRNA Human Chediak-Higashi syndrome protein short Isoform (LYST) mRNA, complete cds hd87g08.x1 NCI_CGAP_GC6 Homo sapiens cDNA clone IMAGE:2816542 3' Homo sapiens cAMP-specific phosphodiesterase 8A (PDE8A) mRNA, partial cds Homo saptens 24 kDa intrinsic membrane protein (PMP24), mRNA 801072594F1 NIH MGC_12 Homo saptens cDNA clone IMAGE:3458830 5' 801176865F1 NIH MGC_17 Homo saptens cDNA clone IMAGE:3551853 5' 801072594F1 NIH MGC_12 Homo saptens cDNA clone IMAGE:3458830 5' x592h12.x1 NCI_GGAP_Lu24 Homo saptens cDNA clone IMAGE:2871719 3' AV722329 HTB Homo saptens cDNA clone HTBBSD04 5' Homo saplens similar to transcription factor CA150 (H. sapiens) (LOC63170), 601509696F1 NIH_MGC_71 Homo seplens cDNA clone IMAGE:3911303 6* tu18b02.x1 NCI_CGAP_Pr28 Homo seplens cDNA clone IMAGE:2251371 3* 601509696F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3911303 5 Homo sapiens oxoglutarate dehydrogenase (lipoamide) (OGDH) mRNA Top Hit Descriptor Homo sapiens mRNA for KIAA1277 protein, partial cds EST378215 MAGE resequences, MAGI Homo sapiens cDNA Homo sapiens RAN binding protein 7 (RANBP7), mRNA EST177232 Jurkat T-cells VI Homo sapiens cDNA 5' end Homo sapiens enteropeptidase gene, exons 20 and 21 Hamo sapiens chromosome 21 segment HS21C027 Homo sapiens neurexin III (NRXN3) mRNA Human endogenous retrovirus, complete genome H.sapiens mRNA encoding phospholipase c H.sapiens mRNA encoding phospholipase c Homo sapiens neurexin III (NRXN3) mRNA Homo sapiens myosin X (MYO10), mRNA mRNA EST HUMAN EST HUMAN Top Hit Database Source EST HUMAN EST_HUMAN EST_HUMAN EST_HUMAN EST_HUMAN EST_HUMAN EST HUMAN NT EST HUMAN 눋 4505492 NT 11526307 N 11417012 N 11417012 N 11419429|NT 눋 6005833 Top Hit Acession 4758827 9635487 6.0E-86 60056 4.0E-86 BE54773.1 4.0E-86 BE285843.1 4.0E-86 BE547173.1 3.0E-86 AW340946.1 3.0E-86 AV722329.1 3.0E-86 BE886479.1 3.0E-86 BE886479.1 3.0E-86 Al659240.1 2.0E-86 AA306264.1 2.0E-86 AL163203.2 2.0E-86 N58977.1 2.0E-86 47588 2.0E-86 11419 2.0E-86 U84744.1 2.0E-86 AL163227.2 2.0E-86 AW966142.1 2.0E-86 AF156776.1 ģ 2.0E-86 AB033103.1 2.0E-86 AF156776.1 2.0E-86 AW515742.1 AF056490.1 Z16411.1 6.0E-86 6.0E-86 7.0E-86 (Top) Hit BLAST E 3.0E-86 Most Simila Value 2.18 6.97 2.02 2.69 1.83 1.93 3.37 1.05 5.09 1.55 3.54 3.26 Expression 12. 3.54 0.69 Signal ORF SEQ ID NO: 36810 25660 31208 25660 31684 36408 35980 35981 37628 26910 32476 33733 31502 SEQ ID 13018 13018 22768 23180 13922 18307 13190 14225 14992 16168 17469 20603 16481 21107 10882 10882 9599 5105 5944 1205 5509 11413 1271 206 8160 10120 10120 88 1478 1478 3410 3729 5782 6974 7908

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Homo sapiens gene for AF-6, complete cds Homo sapiens NADH dehydrogenase (ubiquinone) Fe-S protein 1 (75kD) (NADH-coenzyme Q reductase) Homo sapiens butyrobetaine (garrma), 2-oxogiutarate dioxygenase (gamma-butyrobetaine hydroxylase) Homo sapiens butyrobetaine (gamma), 2-oxoglutarate dioxygenase (gamma-butyrobetaine hydroxylase) qb77c09.xt Soares_fetal_heart_NbHH19W Homo sapiens cDNA clone IMAGE:1706128 3' similar to Homo sapiens ribosomal protein S6 kinase, 90kD, polypeptide 5 (RPS6KA5) mRNA Homo sapiens chromosome segregation 1 (yeast homolog)-like (CSE1L), mRNA Homo sapiens a disintegrin and metalloproteinase domain 22 (ADAM22), mRNA Homo sapiens a disintegrin and metalloproteinase domain 22 (ADAM22), mRNA CGAP_Co16 Homo sapiens cDNA clone IMAGE:3322779 3 7H85f02.X1 NCI_CGAP_Co16 Homo sapiens cDNA clone INAGE:3322779 3 Homo saplens thyroid autoantigen 70kD (Ku antigen) (G22P1), mRNA SW:K1CJ_MOUSE P02535 KERATIN, TYPE I CYTOSKELETAL 10 Homo sapiens basic-helix-loop-helix-PAS protein (NPAS3), mRNA Homo sepiens basic-helix-loop-helix-PAS protein (NPAS3), mRNA Top Hit Descriptor Human gamma-glutamyl transpeptidase mRNA, complete cds MR0-NT0039-020500-004-a11 NT0039 Homo sapiens cDNA L3-HT0619-060700-198-D10 HT0619 Homo sapiens cDNA L5-HT0702-160600-103-d06 HT0702 Homo sapiens cDNA Homo sapiens hypothetical protein (LOC51318), mRNA Homo sapiens hypothetical protein (LOC51318), mRNA Homo sapiens phospholipid scramblase 1 (PLSCR1), Homo saplens chromosome 21 segment HS21C009 Homo saplens chromosome 21 segment HS21C009 Homo sapiens chromosome 21 segment HS21C100 Homo sapiens chromosome 21 segment HS21C084 Homo sepiens chromosome 21 segment HS21C084 Homo sapiens mRNA for KIAA1411 protein, par O.cuniculus mRNA for elongation factor 1 alpha Homo saplens synaptojanin 1 (SYNJ1), mRNA Homo sapiens fibulin 5 (FBLN5) mRNA Single Exon Probes Expressed in Brain (NDUFS1) mRNA (BBOX), mRNA (BBOX), mRNA 7h85f02.x1 NCI_ Top Hit Database Source EST_HUMAN EST_HUMAN EST_HUMAN EST_HUMAN EST_HUMAN EST HUMAN 10863876 NT 11422084 NT 11545846 NT 11437135|NT 11437135|NT 4826855 NT 11418189 NT 눋 눋 눋 7706161 NT 1.0E-86 AL163209.2 N 1.0E-86 7706161 N 1.0E-86 7706161 N 4759051 11545846 Top Hit Acession 5453649 4507334 4757721 4757721 1.0E-86 AL163300.2 1.0E-86 AL163284.2. 7.0E-87 BF063211.1 7.0E-87 BF063211.1 7.0E-87 AW890336.1 2.0E-86 AB011399.1 AL163209.2 ģ 1.0E-86 AL163284.2 9.0E-87 AI150703.1 BF352776.1 7.0E-87 BF352776. 7.0E-87 BE712961 2.0E-86 2.0E-86 2.0E-86 2.0E-86 2.0E-86 2.0E-86 .0E-86 1.0E-86 2.0E-86 .0E-86 2.0E-86 (Top) Hit BLAST E 2.0E-86 1.0E-86 8.0E-87 9,011-87 9.0E-87 Value 2.31 1.95 2.91 2.91 1.15 2.31 1.5 2.7 1.32 4.26 2.28 1.32 0.88 0.88 52 52 1.79 Expression 1,37 <u>@</u> 15.93 1.15 Signal 34307 34308 34640 36210 36211 36742 ORF SEQ 28700 29318 29599 31027 28699 33105 ΘNO 29941 25893 32064 33913 33544 21164 SEQ ID 21164 22992 22992 23046 21493 21897 23503 14338 15992 16051 16676 Ę S 16051 16676 16974 24827 18264 18078 2002 15019 19079 20783 20425 ġ SEQ ID 8472 921B 8472 10345 10345 10820 12458 3229 3290 3290 5465 Probe 1592 4578 4578 3926 5272 7348 ğ 2294 2294 6307 8089 9354 467 1606

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	Top Hit Descriptor	DKFZp434N0323_1 434 (synonym: https3) Homo sapiens cDNA clone DKFZp434N0323 5'	DKFZp434N03Z3_r1 434 (synonym: htes3) Homo sapiens cDNA clone DKFZp434N0323 5'	ox59h01.s1 Soares_NhHMPu_S1 Homo sapiens cDNA clone IMAGE:1660657 3'	Human mRNA from chromosome 15 gene with homology to MHC-HLA-SB-1 Intron A	Human mRNA from chromosome 15 gene with homology to MHC-HLA-SB-1 Intron A	Homo sapiens hormonally upregulated neu tumor-associated kinase (HUNK), mRNA	Homo sapiens hormonally upregulated neu tumor-associated kinase (HUNK), mRNA	Homo sapiens mRNA for KIAA1081 protein, partial cds	Homo sapiens similar to SET translocation (myeloid leukemia-associated) (H. saplens) (LOC63102), mRNA	EST96094 Testis I Homo sapiens cDNA 5' end	EST96094 Testis I Homo sapiens cDNA 5' end	Homo saplens chromosome 21 segment HS21C010	Homo sapiens mRNA for KIAA144 protein, partial cds	Homo saplens mRNA for KIAA0456 protein, partial cds	Homo saplens CGI-60 protein (LOC51626), mRNA	Homo saplens CGI-60 protein (LOC51626), mRNA	Homo sapiens myeloid/lymphoid or mixed-lineage leukemia (trithorax (Drosophila) homolog); translocated to, 4 (MLT4) mRNA	ETS-RELATED PROTEIN 71 (ETS TRANSLOCATION VARIANT 2)	TCBAP1E4051 Pedlatric pre-B cell acute lymphoblastic leukemia Baylor-HGSC project=TCBA Homo sapiens cDNA done TCBAP4051	Homo sapiens tuberin (TSC2) gene, exon 10	Human von Willebrand factor pseudogene corresponding to exons 23 through 34	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA	Homo saplens calcineurin binding protein 1 (KIAA0330), mRNA	Homo sapiens purinergic receptor P2X-like 1, orphan receptor (P2RXL1), mRNA	Homo sapiens high-mobility group (nonhistone chromosomal) protein 4 (HMG4) mRNA	AU116935 HEMBA1 Homo sapiens cDNA clone HEMBA1000307 5'	CM0-TN0038-150900-552-h08 TN0038 Homo sapiens cDNA	RC5-HT0580-200300-031-G04 HT0580 Homo saplens cDNA				المراكبة
	Top Hit Database Source	EST_HUMAN	EST_HUMAN	EST_HUMAN	LN	LN TN	L	LN.	ΤN	LN	EST HUMAN	EST HUMAN	LN	FN	LN L	TN	LN	ΤN	SWISSPROT	EST HUMAN	ΪŽ	ΙN	ΙN	LN	TN	LN	EST HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	
	Top Hit Acession No.	7.0E-87 AL043314.2		1	l	K03002.1	7657213 NT	7657213 NT	6.0E-87 AB029004.1	11432444 NT	7 AA382811.1	7 AA382811.1	7 AL163210.2	7 AB037835.1	4.0E-87 AB007925.1	7706299 NT	7706299 NT	5174574 NT	7 000321		4.0E-87 L48524.1	37 M60676.1	11417862 NT	11417862 NT	11417812 NT	4885420 NT	AU116935.1	BF376311.1	7 BE175478.1	7 BE734190.1	7 BE734190.1	17 BE567193.1	
	Most Similar (Top) Hit BLAST E Value	7.0E-87	7.0E-87	7.0E-87	7.0E-87	7.0E-87	6.0E-87	6.0E-87	6.0E-87	6.0E-87	5.0E-87	5.0E-87	4.0E-87	4.0E-87	4.0E-87	4.0E-87	4.0E-87	4.0E-87	4.0E-87	4.0E-87	4.0E-87	4.0E-87	4.0E-87	4.0E-87	4.0E-87	2.0E-87	2.0E-87	7	2.0E-87	2.0E-87	2.0E-87	2.0E-87	
	Expression Signal	3.85	3.85	0.51	6.65	6.65	0.99	0.69	2.02	4.13	1.42	1.56	1.51	13.58	1.53	1.03	1.03	1.8	2.77	4.53	0.72	3.44	1.5	1.5	2.25	2.77	0.83	1.26	1.47	10.34	10.34	9.81	
	ORF SEQ ID NO:	35822							32085		26551	26551	28376		27488		27875		30846		33445		30721				29154		30249		31285		
	Exon SEQ ID NO:					_		17846	19097	23318	13891	13891	13711	13904	14759	15142	15142	16213	18162	18736	20334	23788	25266	25266	24881	15484	16516	17586	17634		18372	19008	
	Probe SEQ ID NO:	9971	9971	10366	10806	10806	3517	5128	6327	10625	1135	12297	945	1149	2024	2421	2421	3457	5360	5954	7670	11118	12396	12396	12541	2779	3764	4857	4907	5275	5225	6234	

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w21e07.r1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:243396 5 w21e07.r1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:243396 5 y/21e07.r1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:243396 5 Homo sapiens tracheal epithelium enriched protein (PLUNC) gene, complets cds. Homo sapiens mRNA for alpha2,3-sialytransferase ST3Gal VI, complete cds. Homo sapiens mRNA for alpha2,3-sialytransferase ST3Gal VI, complete cds Homo sapiens IQ motif containing GTPase activating protein 1 (IQGAP1) mRNA Homo sapiens protein kinase C, beta 1 (PRKCB1), mRNA ot50d04.s1 Scares_testis_NHT Homo sapiens cDNA clone IMAGE:1620199 3' Homo sapiens growth factor receptor-bound protein 10 (GRB10) gene, exon 8 Homo sapiens growth factor receptor-bound protein 10 (GRB10) gene, exon 8 801176032F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3531511 5 601278315F1 NIH_MGC_39 Homo sepiens cDNA clone IMAGE:3610539 5 Homo sapiens EGF-like repeats and discoldin I-like domains 3 (EDIL3), mRNA Homo sapiens EGF-like repeats and discoldin I-like domains 3 (EDIL3), mRNA Homo sapiens sulfotransferase-related protein (SULTX3), mRNA Homo sapiens sulfotransferase-related protein (SULTX3), mRNA Homo sapiens corticotropin-releasing factor type 1 receptor gene, exon 8 Homo saplens corticotropin-releasing factor type 1 receptor gene, exon 8 Homo sapiens putative glycolipid transfer protein (LOC51054), mRNA PM2-CT0285-141099-001-g04 CT0285 Homo sapiens cDNA Homo sapiens neurezin III (NRXN3) mRNA Homo sapiens intersectin long Isoform (ITSN) mRNA, complete cds Homo sapiens intersectin long isoform (ITSN) mRNA, complete cds Top Hit Descriptor PM2-CT0265-141099-001-g04 CT0265 Homo sapiens cDNA RC6-BN0276-050700-012-E02 BN0276 Homo sapiens cDNA RC6-BN0276-050700-012-E02 BN0276 Homo sapiens cDNA AV654143 GLC Hamo sapiens cDNA clone GLCDSG04 3 Homo saplens hect domain and RLD 2 (HERC2), mRNA Homo sapiens hect domain and RLD 2 (HERC2), mRNA Human cyclophilin gene for cyclophilin (EC 5.2.1.8) Homo sapiens RGH1 gene, retrovirus-like element Human mRNA for T-cell cyclophilin Single Exon Probes Expressed in Brain Human L-plastin mRNA, 5' end HUMAN Top Hit Database Source HUMAN EST_HUMAN HUMAN EST HUMAN EST_HUMAN EST_HUMAN EST_HUMAN HUMAN HUMAN HUMAN EST EST EST 11433046 Top Hit Acession 4758827 5031660 h 4506786 11431590 5729867 .0E-87 AW361977.1 1.0E-87 AW361977.1 Š BE294432. AF039517.1 1.0E-87 AF073371.1 1.0E-87 AF039517.1 .0E-87 AF073371.1 1.0E-87 AF114487 .0E-87 A1004091.1 .0E-87 AF214562.1 N48128.1 2.0E-87 BE531136 1.0E-87 AF114487. 2.0E-87 N48128 1 .0E-87 AB022918 X52851.1 BE818183, BE818183. 2.0E-87 N48128. 1.0E-87 Y00052.1 D10083.1 .0E-87 M34426. 2.0E-87 2.0E-87 (Top) HII BLAST E 0E-87 .0E-87 .0E-87 .0E-87 .0E-87 0E-87 1.0E-87 Value 1.0E-87 35.45 0.94 17.42 39.61 0.69 1.94 1.94 2.09 6.23 Expression 0.62 1.91 1.23 12.93 0.97 2.85 Signal 0.97 0.67 88 32375 32638 32828 32882 33112 33362 ORF SEQ 34127 26841 29090 29108 25570 32838 33057 ÖΝΩ 30431 32833 33840 34644 34645 35371 35372 36893 36894 SEQ ID 19764 19814 14158 14158 16451 22337 17814 17814 18910 18910 19768 19768 ö 1960 19773 19981 21499 21499 22186 22186 SEQ ID NO: 6599 6683 7073 7126 7353 8294 9685 1411 1411 3697 5149 5095 5095 8015 6132 6132 7083 27 8807 9533 10965 10272 10921 8807 10633 10965 12809

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	l													1			1		["		-11	3		911	ď."		1		1.,]]	EÆ
. Top Hit Descriptor	Homo sapiens double stranded RNA activated protein kinase (PKR) gene, exon 12	Homo sapiens mRNA for KIAA1399 protein, partial cds	Homo saplens mRNA for KIAA1399 protein, partial cds	Homo sapiens DKFZP586P1522 protein (DKFZP586P1522), mRNA	Homo sapiens chromosome 21 segment HS21C009	H.sapiens ECE-1 gene (exon 9)	H.sapiens ECE-1 gene (exon 9)	Homo sapiens DNA, DLEC1 to ORCTL4 gene region, section 1/2 (DLEC1, ORCTL3, ORCTL4 genes, complete eds)	Homo saplens X-linked anhidrolitc ectodermal dysplasia protein gene (EDA), exon 2 and flanking repeat recions	Homo sapiens KIAA0063 gene product (KIAA0063), mRNA	K9719F Human fetal heart, Lambda ZAP Express Homo sapiens cDNA clone K9719 5' similar to ZINC FINCER PROTEIN H751	Homo sapiens Intersectin short isoform (ITSN) mRNA, complete cds	wd68h08.x1 NCI_CGAP_Lu24 Homo sapiens cDNA done IMAGE:2336799 3' similar to contains Alu	repetitive element;contains element MEK22 MEK22 repetitive element; Homo carians intercards short londom //TCM/ mDM/ complete odd	Amonghafor a Scarce Infant broth AMIR Home conjens a DNA along 1840 E-47400 E-	Homo sapiens chromosome 21 segment HS21C084	602154958F1 NIH_MGC_83 Homo sapiens cDNA clone IMACE:4295775 5'	PM1-TN0028-050900-004-f10 TN0028 Homo sapiens cDNA	PM1-TN0028-050900-004-f10 TN0028 Homo sapiens cDNA	Homo sapiens transforming growth factor, beta-induced, 68kD (TGFBI), mRNA	Homo sapiens cell division cycle 10 (homologous to CDC10 of S. cerevisiae) (CDC10) mRNA	Homo sapiens KIAA0152 gene product (KIAA0152), mRNA	Homo saplens KIAA0152 gene product (KIAA0152), mRNA	Homo sapiens hypothetical protein FLJ21634 (FLJ21634), mRNA	Homo sapiens zinc finger protein 259 (ZNF259) mRNA	za48f12.s1 Soares fetal liver spleen 1NFLS Homo saplens cDNA clone IMAGE:295823 3'	Homo sapiens a disIntegrin and metalloproteinase domain 23 (ADAM23) mRNA	Homo sapiens a disintegrin and metalloprotelnase domain 23 (ADAM23) mRNA	Homo sapiens hypothetical protein FLJ20220 (FLJ20220), mRNA	Homo sapiens valosin-containing protein (VCP), mRNA
Top Hit Database Source	M	IN.	Ę	Ę	N.	ĮŅ.	FN	<u> </u>	L L	Į	NAME IN THE	LZ		EST HUMAN	EST ELIMAN	41	EST HUMAN	EST HUMAN	EST_HUMAN	LN	L	Ę	LN	TN	LN	EST HUMAN	NT	LΝ	٦	L
Top Hit Acesslon No.		AB037820.1	AB037820.1	7661701 NT	AL163209.2	X91929.1	X91929.1	AR026898 1		31887	NRO200 4	<u></u>		A1693217.1	T	9			BF091229.1	11416585 NT	4502694 NT	7661947 NT	7661947 NT	11545800 NT	4508020 NT	N66951.1	4501912NT	4501912 NT	11429300 NT	11429567 NT
Most Similar (Top) Hit BLAST E Value	9.0E-88		9.0E-88	9.0E-88		9.0E-88	9.0E-88	9 OF -88						5.0E-88/		5.05-88				4.0E-88	4.0E-88	4.0E-88	4.0E-88	3.0E-88	3.0E-88		3.0E-88	3.0E-88	3.0E-88	3.0E-88
Expression Signal	10.24	2.76	2.76	1.57	1.35	2.73	2.73	1 05	3.82	1.02	3.78	0.9		2.28	3 0	18	0.45	1.42	1.42	1.43	1.8	1.89	1.89	1.85	1.96	4.11	1.24	1.24	4.06	2.85
ORF SEQ ID NO:		26750				29602	29603	30279			28400			30056										26140		28367	29579			30648
Exen SEQ ID NO:		14076	14076				16977	17670		L	15355	1.	<u></u>	15143	L	1_		乚			23509	24072				ı				18024
Probe SEQ ID NO:	1084	1327	1327	2115	3617	4236	4236	4943	8919	1820	2645	3000		488	6872	7830	9211	1306	1306	7143	10827	11471	11471	715	1805	2948	4216	4216	4444	5216

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Table 4
Single Exon Probes Expressed in

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Top Hit Descriptor	I have a considered in the state of the stat	Harring September Doycymemia rubra vera 1; cell surface receptor (PRV1), mRNA	Homo saplens v-rai simian leukemia virai oncogene homolog A (ras related) (RALA) mRNA	Homo sapiens interleukin 13 (IL13), mRNA	Homo sapiens activator of S phase kinase (ASK), mRNA	Homo saplens activator of S phase kinase (ASK), mRNA	Homo sapiens putative anion transporter 1 mRNA, complete cds	Homo canions arough different and different	Homo septiens molybdenum cofactor biosynthesis protein A and molybdenum cofactor biosynthesis biosynthesis biosynthesis and a cofactor biosynthesis b	mRNA, complete ods	Indus sapiens vets avian erythroblastosis virus E26 oncogene related (ERG), mRNA	From 6 sapiens mRNA for RALDH2-T, complete cds	Tromo sapiens mRNA for RALDH2-T, complete cds	Home sapiens acyt-Coenzyme A dehydrogenese family, member 8 (ACAD8), mRNA	Home capiers Coloration II; macrocytic anemia (TCN2), mRNA	Homo sapiens Calsertiin, presentiin-binding protein, EF hand transcription factor (CSEN), mRNA	Homo capians SNA DE protein Mass on AK mKNA, complete cds	Homo seniers SNADE	Homo capters dwoin and the second of the sec	I III H. R. I. oc. 4 oc. 0 1 11 oc. 10 10 10 10 10 10 10 10 10 10 10 10 10	UI-HRN -see-4040 11 24 NO. COAP Sub3 Homo sapiens cDNA clone IMAGE:2718750 3	Homo saniens Kita Anzutz Treat 2 Treat Sub3 Homo sapiens cDNA clone IMAGE: 2718750 3	Homo capiers KIA 60447 TONIA	Wq70a12.x1 NCI CGAP GCE Home cas	aa54a11.s1 NCI_CGAP_GCB1 Homo septiens cDNA clone IMAGE:2476806 3'	298702.11 Stratagene HeLa cell s3 937216 Homo sapiens cDNA clone IMAGE 627170 E' cimilae to	SW:POL1 HUMAN P10268 RETROVIRUS-RELATED POL POLYPROTEIN;	DNF2B434N03Z3_71 434 (synonym: htes3) Hamo sepiens cDNA clone DKFZp434N03Z3 5' os91g03.s1 NCI CGAP GC3 Home sepiens cDNA clong IIAACE สดงกราคคา	HETEROGENEOUS NUCLEAR RIBONUCI FORROTEINS CAROLUMAAN	Homo sapiens chromosome 21 segment HS21C046	
Top Hit Database Source	5		ž !	Z	- !	Ž !	Z			2 2	EN	EN LA		TN	LZ	LZ	IZ.	L	: -	EST HIMAN	EST HIMAN	LN	FZ	EST HUMAN	EST HUMAN		EST HUMAN	NAMOR	EST_HUMAN		
Top Hit Acession No.	9966888	11420607	18002411	1.141/3/0/1411	INIOLZBI+III	11419Z10 N1	36400	11421726 NT	E034274 4	3.0F-88 41528282	777	3.0E-88 AB015228 1	908	7974	319B	2.0E-88 AF246219.1	Τ	Τ	188		Т		Γ				7			AL163246.2 N	
Most Similar (Top) Hit BLAST E Value	3.0E-88	3.0F-88	30 30 30	300.0	20.00	3.0E-90	3.0E-88	3.0E-88	3 05 30 5	3.0F-88	3.0F-88	3.0E-88 A	3.0E-88	3.0E-88	2.0E-88	2.0E-88 A	2.0E-88 A	2.0E-88 A	2.0E-88	1.0E-88 A	1.0E-88 A	1.0E-88 AB007877.1	1.0E-88 AB007877.1	1.0E-88 AI969034.1	1.0E-88 A/	1 00 00			1.0E-88 AA	1.0E-88 AL	
Expression Signal	4.13	3.56	6	4 18	4	14 58	6.15	9.68	1 35	1.99	0.58	0.58	1.28	5.97	3.32	1.38	3.13	1.52	2.13	5.63	5.63	23.81	23.81	1.4	4.42	80	2.97		2.99	3	
ORF SEQ ID NO:		31327				L	33206	33642	33921	33521	35680	35681	35705		26432	27056	27185	28867	29760	31539	31540	32317	32318	32771	32839	35037	35311	3	36420		
Ø				1	L.	L	1 1	20516	20790	20405	22479	22479	22507	24628	13773	14367	14486	16214	17128	18610	18610	19313	18313	19714	19774	21872	22131	25	80107	74100	
Probe SEQ ID NO:	5498	5618	6969	6319	6319	6965	7440	7821	8096	9334	9828	9828	9857	12139	<u>ड</u>	<u>8</u>	1744	3458	4391	82	5821	8	6548	22	8	9141	9478	11422	1225	3	

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Homo sapiens similar to sema domain, immunoglobulin domain (Ig), short basic domain, secreted, DKFZp434E246_r1 434 (synonym: htes3) Homo sapiens cDNA clone DKFZp434E246 5 Homo sapiens actin related protein 2/3 complex, subunit 1A (41 kD) (ARPC1A), mRNA Homo sapiens homonally upregulated neu tumor-associated kinase (HUNK), mRNA Homo sapiens homonally upregulated neu tumor-associated kinase (HUNK), mRNA Homo sapiens serine/threonine-protein kinase PRP4 homolog (PRP4) mRNA
Homo sapiens ubiquitin-conjugating enzyme E2L 3 (UBE2L3) mRNA
Homo sapiens ubiquitin-conjugating enzyme E2L 3 (UBE2L3) mRNA
Homo sapiens HSPC159 protein (HSPC159), mRNA
Homo sapiens mRNA for KIAA0406 protein, partial cds
Homo sapiens mRNA for KIAA0406 protein, partial cds 601142409F1 NIH_MGC_14 Homo sapiens cDNA clane IMAGE:3506186 Homo saplens complement component 8, beta polypeptide (C8B) mRNA Homo sapiens inner membrane protein, mitochondrial (mitofilin) (IMMT), Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA Top Hit Descriptor Homo sapiens KIAA0433 protein (KIAA0433), mRNA Homo sapiens KIAA0433 protein (KIAA0433), mRNA Homo sapiens mRNA for KIAA0561 protein, partial cds H. sapiens Wee1 hu gene Homo sapiens mRNA for KIAA0823 protein, partial cds Homo sapiens mRNA for KIAA0823 protein, partial cds Human aldose reductase (AR) gene, segment 2 Human aconitate hydratase (ACO2) gene, exon 2 (semaphorin) 3A (H. sapiens) (LOC63232), mRNA Homo sapiens plastin 3 (T isoform) (PLS3), mRNA Homo sapiens plastin 3 (T isoform) (PLS3), mRNA H.sapiens CLN3 gene, complete CDS H.sapiens CLN3 gene, complete CDS Single Exon Probes Expressed in Brain H.sapiens Wee1 hu gene Top Hit Database Source EST HUMAN HUMAN EST HUMAN EST_HUMAN EST 11421514 NT 7657213 NT 눋 6806918 NT 6806918 NT 4506124 NT 4507788 NT 7657213 4557390 Top Hit Acession 7549808 11417118 11417118 4507788 7861817 BE311557.1 7.0E-89 AL045748.1 7.0E-89 X62048.1 7.0E-89 X62048.1 7.0E-89 AB020630.1 7.0E-89 AB020630.1 7.0E-89 M59783.1 7.0E-89 U87927.1 6.0E-89 580 ģ 6.0E-89 AB007866.2 7.0E-89 AB011133. 5.0E-89 BE244323.1 5.0E-89 BE244323.1 7.0E-89 X99832.1 8.0E-89 7.0E-89 7.0E-89 7.0E-89 (Top) Hit BLAST E Value 7.0E-89 7.0E-89 7.0E-89 7.0E-89 dost Similar 7.0E-89 6.0E-89 6.0E-89 6.0E-89 6.0E-89 0.57 2.06 0.57 0.57 0.57 3.35 1.34 1.34 Expression 1.11 1.45 2.33 0.73 1.06 1.06 0.88 Signal 2.74 0.81 2.74 ORF SEQ 28184 32519 30181 31997 31998 33156 33598 33599 35421 36296 ÖNO 36297 36320 37154 27888 27889 30345 30346 SEQ ID 15445 19495 13210 18148 18148 Exon 19024 20076 ö 23091 13762 14938 23091 15155 17737 17737 SEQ ID 5345 4878 6833 424 4828 6250 10429 10445 10445 12774 1002 2434 Ö 3515 4593 4593 2210 5100 5018 5016

Page 398 of 536 Table 4 Single Exon Probes Expressed in Brain

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Top Hit Descriptor	QV3-NT0022-080600-219-g03 NT0022 Homo sapiens cDNA	we91c03.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2348452.37	EST388290 MAGE resequences, MAGN Homo sapiens cDNA	ch17b06.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:184915.3'	Human mRNA for KIAA0299 gene, partial cds	yw86e11.r1 Soares_placenta_8to9weeks_2NbHP8to9W Homo sapiens cDNA clone IMAGE:259148 5' similar to SW:PI4K HUMAN P42356 PHOSPHATIDY/I NOSITO1 4-KINASF AI PHA	Homo sapiens PXR2b protein (PXR2b), mRNA	Homo saplens mRNA for KIAA1342 protein, partial cds	gg98c08.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:1843022 3' similar to gb:J04131 GAMMA-GLUTAMYLTRANSPEPTIDASE 1 PRECURSOR (HUMAN);contains Alu repetitive element	ah70e03.s1 Soares_testis_NHT Homo sapiens cDNA clone 1320988 3'	ah70e03.s1 Soares_testis_NHT Homo sapiens cDNA clone 1320988 3'	Homo sapiens topoisomerase-related function protein (TRF4-2) mRNA, partial cds	H.sapiens HCK gene for tyrosine kinase (PTK), exons 10-11	H.saplens HCK gene for tyrosine kinase (PTK), exons 10-11	Homo sapiens chromosome 21 segment HS21C003	Homo sapiens GGT gene, exon 5	601065996F1 NIH_MGC_10 Homo saplens cDNA clone IMAGE:3452423 5'	Homo sapiens gene for LECT2, complete cds	Human N-ethylmalelmide-sensitive factor mRNA, partial cds	Homo sapiens chromosome 21 segment HS21C085	Human GT24 (GT24) mRNA, partial cds	Homo sapiens solute carrier family 24 (sodium/potassium/calcium exchanger), member 2 (SLC24A2), mRNA	Homo sapiens partial mRNA for PEX5 related protein	Homo seplens mRNA for KIAA1333 protein, partial cds	Homo sapiens CaBP5 (CABP5) gene, exon 5	Homo sapiens CaBP5 (CABP5) gene, exon 5			
Top Hit Database Source	EST HUMAN	EST HUMAN	EST HUMAN	EST HUMAN	NT	EST HUMAN	L	LN	F	TN	F	EST HUMAN	EST HUMAN	EST HUMAN	FZ	LN	TN	Į.	NT	EST_HUMAN	NT	TN	NT	NT	LZ	Σ	LN	LN	L L
Top Hit Acession No.	BE762749.1	AI798672.1	AW976181.1	AI217359.1	AB002297.1	N57357 1	7706670 NT	T706670 NT	7706670 NT	7706670 NT	AB037763.1	AI222095.1		AA759149.1	AF089897.1	X58742.1	X58742.1	AL163203.2	AJ007378.1		1.1		AL163285.2	U81004.1	11428801	AJ245503.1	AB037754.1	AF170814.1	AF170814.1
Most Similar (Top) Hit BLAST E Value	4.0E-89	4.0E-89	3.0E-89	3.0E-89	3.0E-89	3.0E-89	-	2.0E-89	2.0E-89	2.0E-89		2.0E-89		2.0E-89	2.0E-89			2.0E-89	2.0E-89			2.0E-89	2.0E-89 /		2.0E-89	2.0E-89	2.0E-89	2.0E-89	2.0E-89
Expression Signal	1.95	1.56	1.51	1.26	0.48	2.34	0.87	0.87	1.55	1.55	3.17	1.53	1.01	1.01	1.28	5.16	5.16	0.75	1.1	99.0	2.9	1.61	0.63	5.33	3.07	1.02	9.0	99.0	0.68
ORF SEQ ID NO:	33251	37034		32790		0898	25832	25833	25832	25833	25933	28293	28946	28947	29494	29504		29679	29825		30886	31418	31861	33341	33657	34146	35052	35557	35558
Exon SEQ ID NO:	20159	23758		19731	23148	23393	L	13184	13184	13184	13301	15650	16296	16296	16867	16875			17199	18065	18193			20237	20530	21009	l		22361
Probe SEQ ID NO:	7487	11088	2879	7040	10502	10702	123	123	399	399	517	2883	3540	3540	4125	4133	4133	4315	4463	5259	5393	5702	6116	7567	7835	8316	9152	9710	9710

Page 399 of 536 Table 4 Single Exon Probes Expressed in Brain

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	Top Hit Descriptor	Homo sapiens integrin, alpha 3 (antigen CD49C, alpha 3 subunit of VLA-3 receptor) (ITGA3), mRNA	Homo sapiens hect domain and RLD 2 (HERC2), mRNA	Homo sapiens cell adhesion molecule with homology to L1CAM (close homologue of L1) (CHL1), mRNA	Human MAGE-7 antigen (MAGE7) pseudogene, complete cds	hr81d09.x1 NCI_CGAP_Kid11 Homo seplens cDNA clone IMAGE:3134897 3' similar to TR:054778 O54778 SOLUTE CARRIER FAMILY 22 -LIKE 2 PROTEIN ;	hr81d09.x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:3134897 3' similar to TR:054778 O54778 SOLUTE CARRIER FAMILY 22-LIKE 2 PROTEIN;	Homo sapiens chromosome 21 segment HS21C046	7e36f08.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3284583 3'	7e36f08.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3284583 3'	RC1-HT0598-120400-022-b08 HT0598 Homo sapiens cDNA	qg96c08.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:1843022 3' similar to gb:J04131 GAMMA-GLUTAMYLTRANSPEPTIDASE 1 PRECURSOR (HUMAN);contains Alu repetitive element;	gb:J04131 ement;	zj82g10.s1 Soares_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:461442.3'	zj82g10.s1 Scares_felal_liver_spleen_1NFLS_S1 Homo saplens cDNA clone IMAGE:4614423'	Homo saplens calcium channel alpha1E subunit (CACNA1E) gene, exons 7-49, and partial cds, alternativel好 spliced	ai63d08.s1 Soares_testis_NHT Homo sapiens cDNA clone 1375503 3'	601655837R1 NIH_MGC_66 Homo sepiens cDNA clone IMAGE:3855824 3'	601655837R1 NIH_MGC_66 Homo sapiens cDNA clone IMAGE:3855824 3'	yr86e04.s1 Soares fetal liver spleen 1NFLS Homo saplens cDNA clone IMAGE:212190 3' similar to SP:C1TC_HUMAN P11586 C-1-TETRAHYDROFOLATE SYNTHASE, CYTOPLASMIC;	yr86e04.s1 Soares fetal liver spleen 1NFLS Homo saplens cDNA clone IMAGE:212190 3' similar to SP:C11C, HUMAN P11686 C-1-TETRAHYDROFOLATE SYNTHASE, CYTOPLASMIC;				
21	Top Hit Database Source	LN	TN	FN	۲N	EST_HUMAN	EST_HUMAN	۲	Ę	LN L	F	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST HUMAN	EST HUMAN	EST_HUMAN	Z FZ	EST HUMAN	EST HUMAN	EST_HUMAN	EST HUMAN	EST HUMAN	
	Top Hit Acession No.	11434411 NT	5729867 NT	11433673 NT	2.0E-89 U10692.1	1.0E-89 BF196052.1	1.0E-89 BF196052.1	9.0E-90 AL163246.2	AL163246.2	AL163246.2	8.0E-90 AL163246.2	8.0E-90 BE670561.1	8.0E-90 BE670561.1	8.0E-90 BE177830.1	8.0E-90 AI222095.1	8.0E-90 AI222095.1	AA705222.1	8.0E-90 AA705222.1	7.0E-90 AF223391.1	7.0E-90 AA782977.1	BE962525.2	7.0E-90 BE962525.2	7.0E-90 H68849.1	00 H68849.1	
	Most Similar (Top) Hit BLAST E Value	2.0E-89	2.0E-89	2.0E-89	2.0E-89	1.0E-89	1.0E-89	9.0E-90	9.0E-90				8.0E-90	8.0E-90	8.0E-90	8.0E-90	8.0E-90	8.0E-90	7.0E-90	7.0E-90	7.0E-90	7.0E-90	7.0E-90	7.0E-90	
	Expression Signal	2.83	2.3	5.03	2.11	5.97	5.97	1.57	1.57	2.23	2.9	3.78	3.78	0.55	1.52	1.62	1.32	1.32	4.12	2.08	1.62	1.62	1.9	6,1	
	ORF SEQ ID NO:	37339		37472		37483	37484		33957	26459	26459		26732		36531	36532					34701		35901		
	Exan SEQ ID NO:	24036	1	24161	24312	24169	24169	20820	20820)	1	15565	21150	23293	23293	23639	23639		L	1		i	l	1
	Probe SEQ ID NO:	11346	11448	11562	11718	11570	11570	8126	8126	1041	1042	1307	1307	8428	10599	10599	10963	10963	816	8323	8865	8865	10036	10036	

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sed in Brain	Top Hit Descriptor	602071208F1 NCI_CGAP_Bm64 Homo sapiens cDNA clone IMAGE:4214257 5	Homo sapiens hypothetical protein FLJ10388 (FLJ10388), mRNA	Homo sapiens hypothetical protein FLJ10388 (FLJ10388), mRNA	Homo sapiens HsGCN1 mRNA, partial cds	Homo sapiens HsGCN1 mRNA, partial cds	Homo sapiens inositol 1,4,5-triphosphate receptor, type 3 (ITPR3) mRNA	Homo sapiens inositol 1,4,5-triphosphate receptor, type 3 (ITPR3) mRNA	Homo sapiens TCL6 gene, exon 1-10b	Human gamma-aminobutyric acid transaminase mRNA, partial cds	qg96cd8.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:1843022 3' sImilar to gb.J04131 GAMMA-GLUTAMYLTRANSPEPTIDASE 1 PRECURSOR (HUMAN);contains Alu repetitive element;	qg96c08.x1 Soares_NFL_T_GBC_S1 Homo saplens cDNA clone IMAGE:1843022 3' similar to gb:J04131 GAMMA-GLUTAMYLTRANSPEPTIDASE 1 PRECURSOR (HUMAN):contains Alu renetitive element:	Hamo sapiens intersectin long isoform (ITSN) mRNA, complete cds	Homo sapiens pregnancy-zone protein (PZP) mRNA	DKFZp762P1616_11 762 (synonym: hmel2) Homo sapiens cDNA clone DKFZp762P1616 5'	H. sapiens mRNA encoding phospholipase c	Homo sapiens ELKS mRNA, complete cds	H. sapiens mRNA encoding phospholipase c	Homo saplens Carbonic anhydrase-related protein 10 (LOC56934), mRNA	Homo saplens Carbonic anhydrase-related protein 10 (LOC56934), mRNA	Homo sapiens angiopoietin 4 (ANG4) mRNA, partial cds	Homo sapiens angiopoletin 4 (ANG4) mRNA, partial cds	Homo sapiens adenylate cyclase 9 (ADCY9) mRNA	Homo sapiens ryanodine receptor 3 (RYR3) mRNA	Homo sapiens hypothetical protein FLJ13222 (FLJ13222), mRNA	Homo sapiens cadherin 18 (CDH18) mRNA	Homo saplens similar to ectonucleotide pyrophosphatase/phosphodiesterase 3 (H. sapiens) (LOC63214),	Homo saplens calclum-binding transporter mRNA, partial cds	Homo sapiens KIAA0433 protein (KIAA0433), mRNA	Homo sepiens KIAA0433 protein (KIAA0433), mRNA
Single Exon Probes Expressed in Brain	Top Hit Database Source	HUMAN 602071208F	Г	Homo sapien	Homo saplen	Homo saplen	Homo sapien	Homo sapien	Homo sapien	Human gamr			Т	Homo sapien	HUMAN DKFZp762P	H. sapiens m	Homo sapien	H.sapiens m	Homo saplen	Homo saplen	Homo sapien	Homo sapien	Homo sapien	Homo saplen	Homo saplen	Homo sapien	Homo saplen mRNA	Homo saplen	Homo sapien	Hamo sapien
gle Exo	Top Data	EST_H	Ί.	호	뉟	۲	۲ ا	Ε	Ę	뒫	EST_HUMAN	EST HUMAN	NT	Ε	EST_HU	۲	μN	٦	NT	ΙN	LΝ	ΙN	ΙN	ΙN	Ę	ΤN	Ä	Ŋ	۲N	FN
Sin	Top Hit Acession No.	BF526089.1	R922398 NT	B922398 NT	U777700.1	U77700.1	6.0E-90 4504794 NT	4504794 NT	AB035344.1	U80226.1	AI222095.1	A1222095.1		4508354 NT	AL135549.1	Z16411.1	AB015617.1	Z16411.1	9910365 NT	FN 59510365 NT	AF113708.1	AF113708.1		4506758 NT	11345483 NT	4826670 NT	T1419429 NT	AF123303.1	11417118 NT	11417118 NT
	Most Similar (Top) Hit BLAST E Value	7.0E-90	6.0E-90	6.0E-90	6.0E-90	6.0E-90	6.0E-90	6.0E-90		5.0E-90	5.0E-90	5.0E-90	5.0E-90	5.0E-90	5.0E-90		5.0E-90	5.0E-90	5.0E-90	5.0E-90	5.0E-90	5.0E-90	5.0E-90	5.0E-90	5.0E-90	5.0E-90	5.0E-90	5.0E-90	5.0E-90	5.0E-90
	Expression Signal	1.17	9.12		3.27	3.27	2.75	2.75	19.84	3.08	1.47	1.47	2.79	2.05	0.98	2.94	1.31	2.36	0.74	0.74	2.04	2.04	9.01	0.44	5.08	0.56	1.06	0.56	0.5	0.5
	ORF SEQ ID NO:	36216	29568	29569	31625	31626	34056	34057		26586	27267	27268	28011	29871	29992	31203	31316	31203	32407	32408	32866	32867	33228	33609	34025	34950	35416	36044	36175	36176
	Exon SEQ ID NO:	22999	16942	16942	18679		20919	1 1		13924	14553	14553	15274	17238	1		18402		19393	19393	19802	19802	20136	20485	20886	21784	22232	22829	22959	22959
. [Probe SEQ ID NO:	10352	4201	4201	5894	5894	8225	8225	151	1170	1813	1813	2560	4503	4622	5504	9099	5679	6631	6631	7114	7114	7463	1790	8192	9606	6256	10181	10312	10312

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Single Exon Probes Expressed in Brain	Top Hit Descriptor	AU118985 HEMBA1 Homo sapiens cDNA clone HEMBA1004795 5	Homo sapiens myosin, heavy polypeptide 4, skeletal muscle (MYH4), mRNA	Homo sapiens amyloid beta (A4) precursor protein (protease nexin-1, Alzhelmer disease) (APP), mRNA	Homo saplens chromosome 21 unknown mRNA	Homo sapiens chromosome 21 unknown mRNA	Homo sapiens mRNA for T-box transcription factor (TBX20 gene), partial	Homo sapiens mRNA for T-box transcription factor (TBX20 gene), partial	Homo sapiens ALR-like protein mRNA, partial cds	Homo saplens ALR-like protein mRNA, partial cds	Homo sapiens Kuppel-like factor 7 (ubiquitous) (KLF7), mRNA	Homo sapiens protein phosphatase 2A BR gamma subunit gene, exon 3	Homo sapiens protein phosphatase 2A BR gamma subunit gene, exon 3	601159563F2 NIH_MGC_53 Homo sapiens cDNA clone IMAGE:3511118 5	Homo sapiens similar to SALL1 (sal (Drosophila)-like (LOC57167), mRNA	Homo sapiens chromosome 8 open reading frame 2 (C8ORF2), mRNA	Homo sapiens soluble interleukin 1 receptor accessory protein (IL1RAP) gene, exon 8, alternative exons 9	and complete cds, alternatively spliced	Homo sapiens mRNA for KIAA0633 protein, partial cds	Homo sapiens KIAA0623 gene product (KIAA0623), mRNA	Homo sapiens cytochrome P450, 51 (lanosterol 14-alpha-demethylase) (CYP51), mRNA	Human retina-derived POU-domain factor-1 mRNA, complete cds	Homo sapiens glutamate receptor, lonotropio, N-methyl D-aspartate 2A (GRIN2A) mRNA	Homo sapiens solute carrier family 1 (high affinity aspartate/glutamate transporter), member 6 (SLC1A6), ImRNA	Homo sapiens brefeldin A-inhibited guanine nucleotide-exchange protein 2 (BIG2), mRNA	Homo sapiens SNCA Isoform (SNCA) gene, complete cds, alternatively spliced	Homo sapiens CGI-15 protein (LOC51006), mRNA	Homo sapiens CGI-16 protein (LOC51006), mRNA	yg44d11.r2 Soares infant brain 1NIB Homo sapiens cDNA clone IMAGE:35477 5'	Human branched chain alpha-keto acid dehydrogenase mRNA, 3' end	Homo sapiens DNA for Human P2XM, complete cds		HUM000S381 Liver HepG2 cell line. Homa sepiens cDNA clane s381 3'
Jie Exon Pro	Top Hit Database Source	EST_HUMAN	ΤN	FZ	E	NT.	NT	NT	NT	NT	NT	TN	FZ	EST_HUMAN	NT	NT		LZ.	L	NT	LN.	L	۲N	<u> </u>	LN	LN	FZ	ΙN	EST_HUMAN	NT	TN	TN	EST HUMAN
SUIS.	Top Hit Acession No.	90 AU118985.1	11024711 NT	4502166 NT	90 AF231920.1	90 AF231920.1		1.0E-90 AJ237589.1		90 AF 264750.1	4507828 NT	90 AF096154.1		1.0E-90 BE379884.1	11420514 NT	6005720 NT		-90 AF167340.1		11426910 NT	11419406 NT		6006002 NT	11426758 NT	11422086 NT	90 AF163864.1	11422109 NT	1422109	90 R25686.1		90 AB002059.1	9.1	91 D12234.1
	Most Similar (Top) Hit BLAST E Value	2.0E-90	2.0E-90	1.0E-90	1.0E-90	1.0E-90	1.0E-90	1.0E-90	1.0E-90	1.0E-90	1.0E-90	1.0E-90	1.0E-90	1.0E-90	1.0E-90	1.0E-90		1.0E-90	1.0E-90	1.0E-90	1.0E-90	1.0E-90 U91934.1	1.0E-90	1.0E-90	1.0E-90	1.0E-90	1.0E-90	1.0E-90	1.0E-90	1.0E-90	1.0E-90	1.0E-90	8.0E-91
	Expression Signal	1.37	2.8	4.55	1.36	1.43	2.32	2:32	13.22	13.22	2.47	5.58	5.56	1.23	3.33	6.46		1.29	2.58	96.0	0.57	99.0	0.64	2.77	3.73	96.0	1.53	1.53	1.5	1.76	1.49	1.49	9
	ORF SEQ ID NO:	35707	36446	25720	25805		26098			26138		26703	26704			28271			31295		32240	32475	32962	33345			35062	35063		96898	31001		29542
	Exen SEQ ID NO:	22510	23214	13078	15516				13487			14033	14033	14408		15626	_			18538		19455	19889	20240	L	21863	21894	21894	23253	23643	24904		16912
	Probe SEQ ID NO:	9860	11447	270	365	366	679	629	713	713	1088	1283	1283	1662	1895	2858		4389	5589	5746	6473	6973	7204	7571	8720	9183	9215	9215	10557	10967	12580	12580	4172

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Table 4
Single Exon Probes Expressed

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Page				1	1				-		-		į		1	-	i a i			1	ŀ	"	, in a	н	1	1		-	13	L.(! ,	1	40	1,01	567
Exan ORF SEQ Expression Most Similar Top Hit Acassion Top Hit Acassion Database Database Top Hit Acassion Top Hit Acasion Top Hit Acassion Top Hit Acassion Top Hit Acassion To	oes Expressed in Brain	Top Hit Descriptor		Nattus norvegicus brain specific cortactin-binding protein CBP90 mRNA partial and	Homo saplens makorin, ring finger protein, 1 (MKRN1), mRNA	CM-BT043-090299-075 BT043 Homo sapiens cDNA	290b04.s1 Soares fetal liver spleen 1NFLS S1 Homo sapiens cDNA class 188 CF 24.004.2	AU143539 Y79AA1 Homo sapiens cDNA clone Y79AA1002087 5	AU143539 Y79AA1 Homo saplens cDNA clone Y79AA1002087 5'	Hamo sapiens chromosome 22 open reading frame 5 (C220RF5) mRNA	Homo sapiens chromosome 22 open reading frame 5 (C22ORF5), mRNA	au49709.x1 Schneider fetal brain 00004 Homo saniens cDNA clara MA OF Section 1	SW:ASPG_FLAME Q47898 N4-(BETA-N-ACETYLGLUCOSAMINY) N. ASBABACINIST TO THE PERSON OF TH	601901624F1 NIH_MGC_19 Homo saplens cDNA clone IMAGE:4130933 5	AV649878 GLC Homo sapiens cDNA clone GLCBYF08 3'	4V649878 GLC Homo sapiens cDNA clone GLCBYF08 3'	de Virit XI Sogres fetal Jung NbHL19W Homo sapiens cDNA clone IMAGE:1744365 3' similar to con	on the relative element;	normo septems lysophosphatidic acid acyltransferase-delta (LPAAT-delta) mRNA complete cdc	Torrio sapiens lysophosphatidic acid acyltransferase-della (LPAAT delta mRNA compressioned)	Iomo septens chromosome 21 segment HS21C084 ST01579 Hippocameurs Stretange Cat Monagania	tetrovirus-related gag polyprotein	ST01579 Hippocampus, Stratagene (cat. #936205) Homo sapiens cDNA clone HHCMCs0 clone.	terrowrus-related gag polyprotein	outo Saptens solute carrier family 4, anion exchanger, member 3 (SLC4A3), mRNA	onio sapiens solute carrier family 4, anion exchanger, member 3 (SLC4A3), mRNA	und septems chidmosome 21 segment HS21C083	uno sapiens mKNA for KIAA1278 protein, partial cds	onio sapiens minina for KIAA1278 protein, partial cds	omo sapiens cyclin-D binding Myb-like protein mRNA, complete cds	uman Ku (p70/p80) subunit mRNA, complete cds	omo sapiens epididymal secretory protein (19.5kD) (HE1), mRNA	omo sapiens cyclin-dependent kinase 6 (CDK6) mRNA	omo sapiens gamma-aminobutyric acid (GABA) B recentor 1 (CABBB4)	(Andrew I), idenscript variant 2, mRNA
Expression Corp. Signal BLAST E No. Value No	gie Exon Pro	Top Hit Database Source	1		L _N	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	Į.	2		7	T	7	Т		\top	┱			\neg		NICHOLL											
SEQ ID ORF SEQ Expression Top Hit To		noisi	T	1	234		Ť	1		534	3		" "	7	"	+	<u> </u>	2	2	1	+	Ÿ	<u>ŭ</u>	i z 8	<u> 2</u> 8	Z	1	12	Ź			z 2	2	틛	
SEQ ID ORF SEQ Expression Top)			A F053789 4	A 000/00.	11418	A 4 70076 1	AA/02/94.1	AU143539.1	7446	7110			Alo/ 9990.1	AV640879 4	AVE 40070 4	AV0496/8.1	AI193566.1	AF156776 1	4F156776 1	41 1632B4 2	2,702001.2	477994.1	177894.1	114301	114301	L163283.2	B033104 1	B033104 1	F084530.1	130938 1	1142406	450077	12021	1149761	
Express Express Express Express Express Express No. In No. Signar No. In No. Signar In No. In No. Signar In In No. In No. In No. In No. In In No. In			7.0F-94	700	705	2007	5050	0.00 R	A 10.10	505.91	6	100	505.9	50F-94	5000	18-10-5	5.0E-91	4.0E-91	4.0E-91	4.0E-91		4.0E-91	4.0E-91	3.0E-91	3.0E-91	3.0E-91/	3.0E-91	3.0E-91	3.0E-91 A	3.0E-91 N	3 OE-91	3 OF-91		3.0E-91	
SEQ ID OR SEQ		Expression Signal	1.06	4	88.0	1 83	11 73	11 73	0.97	0.97		1 25	12	1.52	1.50		1.74	1.69	1.69	4.49		1.96	1.86	3.07	3.07	1.62	3.39	3.39	1.45	3.79	1.27	2.48		5.82	
				L	L				30116	30117		32289	33931	34495	34496			28611	28612	36775	24000	31082	31127	27049	27050	28746	28863	28864	29159	29915	31305	-		92776	
Probe SEQ ID NO: NO: NO: 1420 4480 4480 4480 4480 4480 4480 4480 12084 4757 4757 4757 4757 4757 4757 4757 47	⊢				L	ļ	L			17489			1				24919	200	2000	23530	24506		24596	14360	14360	16094	16211	16211	16520	17286	18395	18987	4006	19233	
		SEQ ID NO:	1427	8205	10198	3467	4480	4480	4757	4757		6519	8105	8658	8658		12612	JAI C	3197	10848	12094		12094	1613	1613	3334	2455	3455	89/2	4551	200	6212	9700	3	

PCT/US01/00667

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DEST Homo sapiens glutathione S-transferase theta 2 (GSTT2) and glutathione S-transferase theta 1 (GSTT1) Homo saplens gamma-aminobutyric acld (GABA) B receptor, 1 (GABBR1), transcript variant 2, mRNA Homo saptens beta-ureldopropionase (BUP1) gene, exon 6
Homo saptens beta-ureldopropionase (BUP1) gene, exon 6
Homo saptens chromosome 21 segment HS21C084
UI-H-Bi3-aks-d-01-0-UI.s1 NCI_CGAP_Sub5 Homo saptens cDNA clone IMAGE:2735280 3'
Homo saptens hypothetical protein PRO1855 (PRO1855), mRNA
60222088F1 NCI_CGAP_Brn67 Homo saptens cDNA clone IMAGE:4157804 5'
602222088F1 NCI_CGAP_Brn67 Homo saptens cDNA clone IMAGE:4157804 5' Homo sapiens brefeldin A-inhibited guanine nucleotide-exchange protein 2 (BIG2), mRNA Human L-type calcium channel beta-1 subunit (CACNLB1) gene, exons 10 and 11 Human L-type calcium channel beta-1 subunit (CACNLB1) gene, exons 10 and 11 ym30e03.r1 Soares Infant brain 1NIB Homo sapiens cDNA clone IMAGE:49587 5' Homo sapiens NKG2D gene, exon 10 26/3 Human retina cDNA randomly primed sublibrary Homo saplens cDNA 601273513F1 NIH_MGC_20 Homo saplens cDNA clone IMAGE:3614667 5 Human mRNA for very low density lipoprotein receptor, complete cds Homo sapiens partial TM4SF2 gene for tetraspanin protein, exon 5 Homo sapiens partial TM4SF2 gene for tetraspanin protein, exon 5 Homo sapiens mRNA for KIAA1512 protein, partial cds Homo sapiens hypothetical protein FLJ20260 (FLJ20260), mRNA Homo sapiens NALP1 mRNA, complete cds Top Hit Descriptor Human Na+,K+ ATPase alpha-subunit mRNA, partial cds Homo sapiens mRNA for KIAA1080 protein, partial cds Homo sapiens mRNA for KIAA1080 protein, partial cds Homo sapiens mRNA for KIAA0594 protein, partial cds Homo sapiens NKG2D gene, exon 10 Homo sapiens mRNA for KIAA0833 protein, partial cds Homo sapiens mRNA for KIAA1512 protein, partial cds Homo sapiens EHM2 mRNA, complete cds Homo sapiens RNB6 (RNB6), mRNA Single Exon Probes Expressed in Brain genes, complete cds EST HUMAN EST HUMAN Top Hit Database Source HUMAN HUMAN EST_HUMAN EST_HUMAN EST_HUMAN 臣 z 눋 Top Hit Acession 11497611 11434402 11427149 1.0E-91 AL163284.2 1.0E-91 AW449746.1 1.0E-91 114344 AB032179.2 AB029003.1 3.0E-91 AF240786.1 3.0E-91 AF169555.1 9.0E-92 AF310105.1 9.0E-92 AJ250566.1 ġ BF348182.1 9.0E-92 AB020640.1 3.0E-91 AB011166. 3.0E-91 AF169555.1 1.0E-91 BF348182.1 9.0E-92 AJ001689.1 9.0E-92 AJ001689.1 3.0E-91 3.0E-91 U86959.1 8.0E-92 BE386363.1 3.0E-91 D16494.1 1.0E-91 H15212.1 9.0E-92 J03007.1 9.0E-92 8.0E-92 W26367.1 3.0E-91 3.0E-91 (Top) Hit BLAST E Value 3.0E-91 Most Similar 1.0E-91 9.0E-92 4.97 2.58 2.83 Expression Signal 1.41 5.06 6.31 0.97 2.26 2.26 1.35 9.06 9.06 0.9 2.83 1.95 3.29 ORF SEQ ID NO: 33306 33307 34508 35023 36723 37105 30490 26645 30790 32610 32611 26640 30454 31217 32127 33576 25554 25728 34107 SEQ ID 21361 21858 23827 25340 13970 13970 17838 18176 18316 18131 19577 19132 20452 ÿ 12917 20966 SEQ ID 7538 8669 9188 10803 7538 11160 12335 1223 1219 6743 12245 1219 12667 5328 6743 5120 5376 6362 8272 8272 9174 11161 2 279

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Table 4
Single Exon Probes Expressed in Brain

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Single Exon Probes Expressed in Brain	Top Hit Descriptor	au83h08.x1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2782911 3' similar to TR:O60302 O60302 KIAA0555 PROTEIN. ; contains element MER22 repetitive element;	Homo sapiens mRNA for KIAA1600 protein, partial cds	Homo sapiens FYVE domain-containing dual specificity protein phosphatase FYVE-DSP2 mRNA, complete cds	Homo sapiens MCP-4 gene	Homo sapiens DNA polymerase zeta catalytic subunit variant 1 (REV3L) mRNA, complete cds	Homo sapiens AIM-1 protein (LOC51151), mRNA	Human lens membrane protein (mp19) gene, exon 11	Human lens membrane protein (mp19) gene, exon 11	Homo sapiens transcription termination factor, RNA polymerase II (TTF2), mRNA	Homo sapiens mRNA for KIAA0611 protein, partial cds	Homo sapiens mRNA for MBNL protein	Homo sapiens nuclear mitogen- and stress-activated protein kinase-1 (MSK1) mRNA, complete cds	Homo sepiens dihydrolipoamide S-succinytran sferase (E2 component of 2-oxo-glutarate complex) (DLST) mRNA	Homo sapiens DNA, MHC class I region, 7.1 ancestral haplotype	Human von Willebrand factor pseudogene corresponding to exons 23 through 34	Homo sapiens mRNA for KIAA0758 protein, partial cds	Homo sapiens mRNA for KIAA0758 protein, partial cds	Homo sapiens cytoplasmic Seprase truncated isoform mRNA, complete cds	Homo sapiens B-cell CLL/lymphoma 7b (BCL7B) mRNA	Homo saplens ARP2 (actin-related protein 2, yeast) homolog (ACTR2), mRNA	Homo sapiens ARP2 (actin-related protein 2, yeast) homolog (ACTR2), mRNA	Homo sapiens cysteme-rich repeat-containing protein S52 precursor, mRNA, complete cds	Homo sapiens NRAS-related gene (D1S155E), mRNA	Ното sapiens DNA, MHC class I region, 7.1 ancestral haplotype	Homo sapiens T-cell lymphoma Invasion and metastasis 1 (TIAM1) mRNA	Homo saplens T-cell lymphoma invasion and metastasis 1 (TIAM1) mRNA	N-CAM=145 kda neural cell adhesion molecule [human, small cell lung cancer cell line OS2-R, mRNA, 2960] nt]	N-CAM=145 kda neural cell edheslon molecule [human, small cell lung cancer cell line OS2-R, mRNA, 29602] nt]	
Je Exon Pro	Top Hit Database Source	EST_HUMAN	ΝΤ	¥	Z L	N N	۲N	NT	LN	TN	IN	NT	ΤN	L	LX	LZ	PN	۲N	NT	TN	NT	TN	F	ΙΝ	NT	TN	NT	LN	Ł	
Sing	Top Hit Acession No.	8.0E-92 AW157571.1				8.0E-92 AF179428.1	16961		8.0E-92 L04193.1	11426569NT	8.0E-92 AB014511.1		8.0E-92 AF074393.1	4503340 NT	2 AB031007.1		Ξ			7.0E-92 4502384 NT	5031570 NT	5031570 NT	7.0E-92 AF167706.1	E005738 NT	AB031007.1	4507500 NT	4507500 NT	7.0E-92 S71824.1	7.0E-92 S71824.1	
	Most Similar (Top) Hit BLAST E Value	8.0E-92	8.0E-92	8.0E-92	8.0E-92	8.0E-92	8.0E-92	8.0E-92	8.0E-92	8.0E-92	8.0E-92	8.0E-92	8.0E-92	8 OF 02	7.0E-92	7.0E-92	7.0E-92	7.0E-92	7.0E-92	7.0E-92	7.0E-92	7.0E-92	7.0E-92	7.0E-92	7.0E-92	7.0E-92	7.0E-92	7.0E-92	7.05-92	
	Expression Signal	0.98	0.65	0.97	1.31	0.92	0.55	3.91	3.91	0.58	2.82	1.18	3.2	187	1.62	1.01	0.87	0.87	1.34	1.99	2.27	2.27	1.46	2.2	1.23	1.06	1.06	2.59	2.59	
	ORF SEQ ID NO:	30374	30771	30918	32217	32222		34152	34153		34801	35771	96996	37730	25466	25525			١.	26675	27645	27646	28020	28171	28205	28750	28751	28912		
	Exon SEQ ID NO:	17760	18113	18210	19219	19223		21017	21017				23397	24024	L	L	l_	15538	1	14008	14913	14913	15282	15435	15462	17877	17877	17282	17282	ı
	Probe SEQ ID NO:	5041	5308	5411	6451	6455	7990	8324	8324	8422	8960	9925	10707	41333	23	94	230	230	577	1257	2184	2184	2568	2728	2757	3340	3340	4547	4547	

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Top Hit Descriptor	Homo saplens chromosome 21 segment HS21C081	zw66d12.r1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:781175 5'	801283012F1 NIH_MGC_44 Homo saplens cDNA clone IMAGE:3605018 5
 | 601118337F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3028304 5' | mrg∹mas-related [human, Genomic, 2416 nt] | wk27d07.x1 NCI_CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2413549 3' similar to TR:Q12844 Q12844 BREAKPOINT CLUSTER REGION PROTEIN; | wk27407.x1 NCI_CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2413549 3' similar to TR:Q12844 O12844 BREAKPOINT CLUSTER REGION PROTEIN | Homo saplens syndecan 4 (amphiglycan, ryudocan) (SDC4) mRNA | Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA

 | Homo sapiens chromosome 21 unknown mRNA | Homo sapiens chromosome 21 unknown mRNA | Homo sapiens stress-induced-phosphoprotein 1 (Hsp70/Hsp90-organizing protein) (STIP1). mRNA | Human endogenous retroviral DNA (4-1), complete retroviral segment
 | DKFZp434C0414_r1 434 (synonym: htes3) Homo sapiens cDNA clone DKFZp434C0414 5' | Homo sapiens P-glycoprotein (mdr1) mRNA, complete cds | Homo sapiens Integrin, dipha L (antigen CD11A (p180), lymphocyte function-associated antigen 1; alpha
pokoepiide) (ITGAL) mRNA | Homo sapiens mRNA for KIAA1068 protein, partial cds | Human NPY Y1-like receptor pseudogene mRNA, complete cds
 | Human NPY Y1-like receptor pseudogene mRNA, complete cds | hd02h02.x1 Soares, NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2908371 3' similar to TR:002:002711 PRO-POL-DUTPASE POLYPROTEIN; | Homo saplens thyroid stimulating hormone receptor (TSHR), mRNA | |
| Top Hit
Database
Source | F | EST HUMAN | EST HUMAN | EST HUMAN | EST HUMAN | F | LN | LN | N | ΤN | EST_HUMAN
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| Top Hit Acession
No. | | | | | | | | 4501898 | 11422946 | 2948 |
 | | | | | 09890 | 6912457

 | | | 5803180 |
 | | | 4504756 | AB028991.1 | Γ
 | | | 900 | |
| Most Similar
(Top) Hit
BLAST E
Value | 7.0E-92 | 7.0E-92 | 5.0E-92 | 3.0E-92 | 3.0E-92 | 3.0E-92 | 3.0E-92 | 2.0E-92 | 2.0E-92 | 2.0E-92 | 2.0E-92
 | 2.0E-92 | 2.0E-92 | 2.0E-92 | 2.0E-92 | 2.0E-92 | 2.0E-92

 | 2.0E-92 / | 2.0E-92 | 2.0E-92 | 2.0E-92
 | 2.0E-92 | 2.0E-92 / | 2.0E-92 | 2.0E-92/ | 2.0E-92
 | 2.0E-92 | 2.0E-92 | 2.0E-92 | |
| Expression
Signal | 0.98 | 6.05 | 1.29 | 1.6 | 2.8 | 2.72 | 2.72 | 1.66 | 3.57 | 3.57 | 1.33
 | 1.33 | 2.22 | 2.36 | 2.36 | 5.58 | 19.2

 | 2.61 | 2.61 | 5.57 | 1.23
 | 2.51 | 0.64 | 9.0 | 3.03 | 0.61
 | 0.78 | 1.69 | 4.93 | |
| ORF SEQ
ID NO: | 30280 | 30504 | | 28215 | 31508 | 36594 | 36595 | 25487 | 25625 | 25628 | 26162
 | 26163 | | 27378 | 27379 | 27504 | 28113

 | 28992 | 28993 | 29068 | 29626
 | | 31383 | | 32285 | -
 | | 34594 | 36587 | | | | | | | | |
| Exen
SEQ ID
NO: | | | 14328 | 15473 | | | | | | _1 |
 | | 14452 | 14685 | 14665 | 14775 |

 | | | 16427 | 16997
 | 17664 | 18468 | 18984 | 19282 | 20045
 | 20045 | 21446 | 23350 | |
| Probe
SEQ ID
NO: | 4944 | 5180 | 1582 | 2768 | 5786 | 10664 | 10664 | 24 | 174 | 174 | 732
 | 732 | 1709 | 1929 | 1929 | 2041 | 2664

 | 3600 | 3600 | 3674 | 4256
 | 4936 | 5673 | 6209 | 6517 | 7364
 | 7387 | 8754 | 10659 | |
| | Exon ORF SEQ Expression (Top Hit Acession NO: Signal BLASTE No. Source | Exon ORF SEQ
Signal Expression
Value Most Similar
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No. Top Hit Acession
No. Top Hit
Source
Source Top Hit
Source 17671 30280 0.98 7.0E-92 AL183281.2 NT Homo sapiens dhromosome 21 segment HS2 | Exon
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Source 17671 30280 0.98 7.0E-92
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EST HUMAN 14328 1.29 5.0E-92
BE390882.1 EST HUMAN | Exon
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Value (Top) Hit
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Source 17671 30280 0.98 7.0E-92 AL183281.2 NT 17889 30504 6.05 7.0E-92 AL483281.2 NT 14328 1.29 5.0E-92 BE390882.1 EST HUMAN 15473 28215 1.6 3.0E-92 BE909714.1 EST HUMAN | Exon
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Signal
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Value (Top) Hit
Top Hit Acession
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No. Top Hit Acession
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Source
No. No. Source
Source
No. 17671 30564 6.05 7.0E-92 AA46206.1 EST HUMAN
EST HUMAN 15473 28215 1.6 3.0E-92 BE909714.1 EST HUMAN 18577 3.56-92 AA378336.1 EST HUMAN | Exon
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Source 17671 30280 0.98 7.06-92 AL163281.2 NT 17889 30504 6.05 7.06-92 AL46206.1 EST HUMAN 15473 28215 1.29 5.06-92 BE909714.1 EST HUMAN 18577 31506 2.6 3.06-92 AL378336.1 EST HUMAN 23355 36594 2.72 3.06-92 X15804.1 NT | Exon
SEQ ID
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NO: Expression
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Signal
NO: Top Hit Acession
NO: Top Hit Acession
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Nature Top Hit Acession
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Page 407 of 536 Table 4 Single Exon Probes Expressed in Brain

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	Top Hit Descriptor	Homo sapiens zinc finger protein 198 (ZNF198), mRNA	Homo sapiens male specific lethal-3 (Drosophila)-like 1 (MSL3L1), mRNA	Homo sapiens mRNA for KIAA1093 protein, parttal cds	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA	yi80e08.r1 Soares placenta Nb2HP Homo sapiens cDNA clone IMAGE:145574 5'	y80e08.r1 Soares placenta Nb2HP Homo sapiens cDNA clone IMAGE:145574 5'	Homo sapiens ribosomal protein, large, P1 (RPLP1) mRNA	HTM1-288F HTM1 Homo saplens cDNA	tgotbo2.x7 NOI_CGAP_CLL1 Homo saplens cDNA clone IMAGE:2107467 3' similar to SW:PTNF_HUMAN Q16825 PROTEIN-TYROSINE PHOSPHATASE D1 ;contains Alu repetitive element;contains element	MER17 repetitive element;	tgo1b02.x1 NC_CGAP_CLL1 Homo sapiens cDNA clone IMAGE.2107467 3' simitar to SW.:PTNF_HUMAN Q16825 PROTEIN-TYROSINE PHOSPHATASE D1 ;contains Alu repetitive element;contains element	MER17 repetitive element;	AU121681 MAMMA1 Homo saplens cDNA clone MAMMA1000738 5'	EST188414 HCC cell line (matastasis to liver in mouse) II Homo sapiens cDNA 5' end similar to ribosomal protein L29	Homo sapiens calcium channel alpha1E subunit (CACNA1E) gene, exons 7-49, and partial cds, alternatively	spliced	601281867F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3603832 5'	Homo sapiens ribosomal protein L10a (RPL10A), mRNA	UI-H-BI0-aah-h-06-0-UI.s1 NCI_CGAP_Sub1 Homo sapiens cDNA clone IMAGE:2709371 3'	UI.H.Bi0-aah-h-06-0-UI.s1 NCI_CGAP_Sub1 Homo saplens cDNA clone IMAGE:2709371 3'	601480521F1 NIH_MGC_86 Hamo sapiens cDNA clane IMAGE:3863908 5'	Homo sapiens chromosome 21 unknown mRNA	Homo sapiens T-cell lymphoma Invasion and metastasis 1 (TIAM1), mRNA	Homo sapiens mRNA for KIAA1287 protein, partial cds	Homo sapiens PTH-responsive osteosarcoma B1 protein (B1) mRNA, complete cds	Homo sapiens mRNA for KIAA0611 protein, partial cds	wc09c08.x1 NCI_CGAP_Pr28 Homo saplens cDNA clone IMAGE:2314670 3'	wc09c08.x1 NCI_CGAP_Pr28 Homo sapiens cDNA clone IMAGE:2314670 3'	Human skeletal muscle 1.3 kb mRNA for tropomyosin	Human somatic cytochrome c (HC1) processed pseudogene, complete cds	
	Top Hit Database Source	LΝ	N	N	. TN	EST_HUMAN	EST_HUMAN	TN	EST_HUMAN		EST_HUMAN		EST_HUMAN	EST_HUMAN	EST HIMAN		NT	EST_HUMAN	IN	EST_HUMAN	EST_HUMAN	EST_HUMAN	L'N	ΝΤ	NT	LΝ	NT	EST_HUMAN	EST_HUMAN	NT	IN	
	Top Hit Acession No.	11434759 NT	5803103 NT	AB028016.1	6912457 NT	R78078.1	R78078.1 EST	450668	BE439625.1		Al380356.1		AI380356.1	AU121681.1	AA316723 1		AF223391.1	BE388571.1	11418526 NT	AW014042.1	AW014042.1	BF036364.1	AF231919.1	11526176 NT	AB033093.1	AF095771.1	AB014511.1	AI674184.1	Al674184.1	X04201.1	M22878.1	
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	Expression Signal	1.48	2.54	2.69	2.51	1.13	1.13	8.83	1.29		3.82		3.82	3	5.48		1.45	1.11	9.71	0.58	0.58	2.51	9.92	0.94	1.02	1.12	3.51	7.28	7.28	2.98	1.01	
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	Exen SEQ ID NO:		23663	24809	15374	14580	14580	14798	20839		21751		21751	14758	14770	l.,	15363	16355	24242	19121	19121	19262	l		19344	19478	14107	14133	14133	15990	18503	
	Probe SEQ ID NO:	10930	10978	12439	12697	1842	1842	2066	8145		9062		9062	2023	2035		2653	3602	11645	6351	6351	6496	239	3073	6581	6817	1359	1386	1386	3227	5710	

Page 408 of 536 Table 4 Single Exon Probes Expressed

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	Top Hit Descriptor	Homo saplens wbscrt (WBSCR1) and wbscr5 (WBSCR5) genes, complete cds, alternatively spliced and	Homo sapiens protein phosphatase-1 regulatory subunit 7 (PPP1R7) gane even 11 complete and	alternatively spliced product	Homo saplens discs, large (Drosophila) homolog 2 (chapsyn-110) (DLG2) mRNA	Homo saplens discs, large (Drosophila) homolog 2 (chapsyn-110) (DLG2) mRNA	Homo sapiens secretory pathway component Sec31B-1 mRNA, affernatively spliced complete and	Homo sapiens TAR (HIV) RNA-binding protein 1 (TARBP1) mRNA	Homo sapiens WSB1 protein (WSB1) mRNA, complete cds	Homo sapiens nucleobindin 2 (NUCB2), mRNA	Homo sapiens gamma-glutamytransferase 1 (GGT1), mRNA	Homo sapiens gamma-glutamyltransferase 1 (GGT1), mRNA 2x50e09 s1 Soares_testis_NHT Homo sapiens oDNA clone IMAGE:795688 3' similar to sw.r.ci p.a. p.a.	P37397 CALPONIN, ACIDIC ISOFORM;	Homo sapiens Interferon gamma receptor 1 (IFNGR1) mRNA	Homo sapiens interferon gamma receptor 1 (IFNGR1) mRNA	Homo sapiens pescadillo (zebrafish) homolog 1, containing BRCT domain (PES1), mRNA	Homo sapiens pescadillo (zebrafish) homolog 1, containing BRCT domain (PES1), mRNA	India sapiens hypothetical protein FLJ20731 (FLJ20731), mRNA	From Septems dystrophin (UMD) gene, deletion breakpoints 1-3 in intron 5	Home confidents DIVA polymerase zeta catalytic subunit (REV3) mRNA, complete cds	Lower Schrödingsome 21 segment HS21C101	Home series with a state of HCC8, mRNA	nonio sapiens interfeukin 18 receptor 1 (IL18R1) mRNA	yb94c12.r1 Stratagene liver (#937224) Homo sapiens cDNA clone IMAGE:78838 5' similer to similar to	SP-A44391 A44391 SERUM RESPONSE ELEMENT-BINDING PROTEIN SRE-ZBP - HUMAN	AVOSZUDI GKC Homo sapiens cDNA clone GKCDRF07 6	5022245059F1 NIH_MGC_62 Homo sapiens cDNA clone IMAGE:4332036 5'	002246559411 NIH_MGC_62 Home sapiens cDNA clone IMAGE.4332036 5/	norio sapiens tensin mRNA, complete cds	nzagos,XI NCI_CGAP_Brn25 Homo sapiens cDNA clone IMAGE:2169076 3' In29g03.X1 NCI_CGAP_Brn25 Homo sapiens cDNA clone IMAGE:316pn7s 3'
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	SEQ ID NO:	18799	20280	21195	21195	22176	22358	22618	23415	26052	25052	12912	13218	13218	13527	13527	13914	14706	14969	15118	16308	16771		18354	23748	16396	16396	16951	18491	18491
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Single Exon Probes Expressed in Brain	Top Hit Descriptor		Homo sapiens GCN5 (general control of amino-acid synthesis, yeast, homolog Hike 2 (GCN5) 2 mbN /	weuzdus x1 NCI_CGAP_GC6 Homo sapiens cDNA clone IMAGE:2304489 3'	Chlorocebus aethiops mRNA for ribosomal protein S4X, complete cds	Chlorocebus aethiops mRNA for ribosomal protein S4X, complete cds	Homo sapiens chromosome 21 segment HS21C085	Homo sepiens chromosome 21 segment HS21C085	Homo sapiens tensin mRNA, complete cds	Human Cik-associated RS cyclophilin CARS-Cyp mRNA, complete cds	601117586F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3358220 5'	ES 1376458 MAGE resequences, MAGH Homo saplens cDNA	Homo sapiens deafness, autosomal dominant 5 (DFNA5), mRNA	QV3-HT0513-290300-126-h04 HT0513 Homo saplens cDNA	Homo sapiens hypothetical protein (LOC51318), mRNA	INSU / 4313 Human chromosome 14 Homo sapiens cDNA clone 1-86	01-HT-BN0-aKs-g-09-0-Ul.r1 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3078329 5'	AV 721849 H I B Homo sapiens cDNA clane HTBAUB04 5'	AV 21846 H I B Homo sapiens cDNA clone HTBAUB04 5	A28CTU.S1 Soares_pregnant_uterus_NbHPU Homo sapiens cDNA done IMAGE:503346 3'	Homo sepiens CYP17 gene, 5' end	1001458631F1 NIH_MGC_66 Homo sapiens cDNA clone IMAGE:3862086 5	Homo sapiens CTR1 pseudogene	Homo sapiens CTR1 pseudogene	nomo sapiens hypothetical protein (DJ328E19.C1.1), mRNA	ZINC FINGER PROTEIN	Homo saplens DNA for amulala processing	Homo saniens clutamate docathad	Homo sanions the state of the sanions that the sanions of the sanions of the sanions that the sanions the sanions that the sa	Homo carions that the state of	House Saprens hypometical protein FLJ20291 (FLJ20291), mRNA	Fromo sapiens mRNA for KIAA1563 protein, partial cds	num sapiens cystene-rich repeat-containing protein S52 precursor, mRNA, complete cds	Homo saplens long chain polyunsaturated fatty acid elongation enzyme (HELO1) mRNA, complete cds	
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	Top Hit Acessian No.		A1824829 1	2 0F-93 AB015610 1	-93 AB015610 4	93 AI 163285 2	93 AI 163285 2	93 AF725806 4	93 IANZES 4	RE252082 4	2.0E-93 AW984385 4	475	2.0E-93 RE351450 4	4442	174313 1	2.0E-93 AW 502002 4	93 AV721846 1	93 AV721848 1	93 AA126735 1	41825 1	2.0E-93 RE035327 4	1.0F-93 A F738097 4	1 0F-83 AF238007 4	7657016		1.0E-93 A1146755.1	1.0E-93 D87675.1	4503	89232	89232	R046783 1	1.0E-93 AF167706 1	7,00,00	JAF231981.1	
	Most Similar (Top) Hit BLAST E Value	3.0E-93	.OE-93	OF-93	2.0E-93	2.0E-93	2.0E-93	3 8	20F-93	PF-93	, H	PE-92	1 P	20F-03	F-93	DE-93 /	DE-93 /	2.0E-93 /	2.0E-93 A	E-931	E-93 P	F-93 A	F-93	1.0E-93		E-93 A	E-93	1.0E-93	1.0E-93	1.0E-93	E-93 A	-93 A	8	W Ca-	
	Most Si (Top) BLAS1 Valur		[°	ľ	"	7	7	1	"	^	7	1	1	٦	1 2	12/	7	~	12	12	~		٦	100		5	읨	5	1.0	1.0	5	5	2 P	-	
	Expression Signal	1.21	4.27	7.61	7.51	9.36	9.48	1.33	1.33	1.66	5.42	990	1.04	1.13	0.66	1.1	1.27	1.27	2.64	2.17	10.79	229	2.29	4.25		4.57	8.97	2.9	7.65	7.65	1.5	0.99	133		
	ORF SEQ ID NO:	32236	36631	25637	25638	25758	25758	27046	27587	27949	30794	30824		31256	31270		36946	36947	- 			25564	25565	25923		25994	70707	09607	26632	26633	26744	26746	27798		
	SEQ ID NO:	19235	23394	12998	12998	13119	13119	14357	14857	15207	18135	18145	18254	18347	18362	19347	23686	23686	24686	24736	24899	12927	12927	13289		13366	1 200	2002	000	13965	14071	14073	15061		
	Probe SEQ ID NO:	6468	10703	185	185	315	316	1610	2126	2490	5332	5342	5455	5550	L	6584			12233	I	_		101			865	L	1	_L	1		1324	2337		

Page 410 of 536 Table 4 Single Exon Probes Expressed in Brain

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1	1			-	1	1		1	1	1			1					ľ] "	Ϊ.	[<u>ו</u>	r"	·****	1			ľ	ij	1 8		FF
Top Hit Descriptor	Homo seniens MHC class 1 region	Novel human gene mapping to chomosome 1	601177886F1 NIH MGC 17 Home seriors china close MACE 3E3206E E	601177686F1 NIH MGC 17 Homo seniens CDNA clone MAACE 3532065 5	Homo sapiens DNA for amyloid precursor protein, complete cds.	Homo contant brain wals made and fasts and all all all all all all all all all al	Home sapiens chromosome 21 segment HS21Ch84	Homo sapiens alucocarticaid receiptor (GRL) gene, intron D. exon 5, and intron F.	Homo sapiens glucocorticoid receptor (GRL) gene, intron D. exon 5, and intron F	Homo capiens candidate taste receptor T2R14 gene, complete cds	Homo sapiens neurofibromin 1 (neurofibromatosis, von Recklinghausen disease, Watson disease) (NF1) mRNA	Homo sapiens KIAA0672 gene product (KIAA0672), mRNA	Homo saplens protein kinase C, beta 1 (PRKCB1), mRNA	Human mRNA for NF1 N-isoform-exon11, complete cds	Homo sapiens mRNA for KIAA1411 protein, partial cds	H.sapiens mRNA for MEMD protein	Homo sapiens protein kinase inhibitor gamma (PKIG) mRNA, complete cds	Homo sapiens mRNA for KIAA1485 protein, partial cds	Homo sapiens Trio isoform mRNA, complete cds	Human PreA4 gene for Alzheimer's disease A4 amyloid protein precursor (exon 9)	Human PreA4 gene for Alzheimer's disease A4 amyloid protein precursor (exon 9)	Novel human gene mapping to chomosome 13, similar to rat RhoGAP	Homo sapiens ryanodine receptor 3 (RYR3), mRNA	Homo sapiens GGT1 gene, exon 1	Homo saplens glutathione S-transferase theta 2 (GSTT2), mRNA	Homo sapiens glutathione S-transferase theta 2 (GSTT2) and glutathione S-transferase theta 1 (GSTT1)	genes, complete cds	Homo sapiens chromosome 21 segment HS21 C009	Homo sapiens transcription enhancer factor-5 mRNA, complete cds	Homo sapiens mRNA for KIAA0612 protein, partial cds	Homo sapiens mRNA for KIAA0612 protein, partial cds	2g87g08.s1 Soares_fetal_heart_NbHH19W Homo sapiens cDNA clone IMAGE:409594 3'
Top Hit Database Source	Į.	Į.	EST HUMAN	EST HUMAN	F	H.V	LN	L	Z	LN		N	LN	NT	N	N	TN	L	ΝΤ	LN	NT	NT	L	TN	TN		Į.	Ŋ	NT	ΙN	TN	EST_HUMAN
Top Hit Acession No.	AF055066 1	1.0E-93 AL137200 1	3E297369 1	1	١	,	1.0E-93 AL163284.2	178509.1	178509.1	1.0E-93 AF227138.1	4557792 NT	7662241 NT	11431590 NT	042072.1	1.0E-93 AB037832.1	/10183.1	1.0E-93 AF182032.1	1.0E-93 AB040918.1	5.1			1.0E-83 AL049801.1	11433646 NT	1.0E-93 AJ230125.1	11417856 NT		1.0E-93 AF240786.1					5.0E-94 AA722434.1
Most Similar (Top) Hit BLASTE	1.0E-93	1.0E-93	1.0E-93	1.0E-93	1.0E-93	1.05-03	1.0E-93	1.0E-93 U78509.1			1.0E-93	1.0E-93	1.0E-93	1.0E-93 D42072.1	1.0E-93	1.0E-93 Y10183.1	1.0E-93	1.0E-93 /	1.0E-93 /	1.0E-93 X13474.1	1.0E-93 X13474.1	1.0E-93 /	1.0E-93	1.0E-93 /	1.0E-93		1.0E-93 /	8.0E-94 /	6.0E-94	5.0E-94	5.0E-94 A	5.0E-94
Expression Signal	1.7	0.96	1.47	1.47	7.48	1 27	2.6	2.38	2.38	0.96	10.32	4.1	2.01	3.49	2.54	1.2	1.38	1.79	1.26	8.29	8.29	0.79	0.62	1.84	2.64		1.49	1.03	1.63	4.23	4.23	4.22
ORF SEQ ID NO:	27924		26689		28349		29763	31173	31174	31389	31546	31850	32650	32907	33984	34269	34382	33542	33546	35319	35320	35467	35910				1		29333	30747	30748	31698
SEQ ID NO:	15184	ł	ı	1	1	15973	L	١.	ĺ	1	18614	L	19611	L	ı				- 1	ı	- 1	ı	- 1	- 1	24896		_	┙				18739
Probe SEQ ID NO:	2466	2511	2825	2825	2934	3210	4395	5479	5479	5678	5825	6104	6694	7150	8158	8441	8547	9352	9356	9488	9488	9625	10045	12487	12566		12739	10492	3944	5283	5283	5957

PCT/US01/00667

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Top Hit Descriptor	ot83d05.s1 Soares_total_fetus_Nb2HF8_9w Homo saplens cDNA clone IMAGE:1623369 3'	602042163F1 NCI_CGAP_Brn67 Homo sapiens cDNA clone IMAGE:4180023 5'	yd98b04.s1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:116239 3'	Homo saplens mRNA for KIAA0027 protein, partial cds	Homo saplens cleavage and polyadenylation specific factor 1, 160kD subunit (CPSF1), mRNA	Homo sapiens ribosomal protein L27 mRNA, complete cds	Homo saplens protein phosphatase 1, regulatory subunit 10 (PPP1R10) mRNA	xn89f12.x1 Soares_NFL_T_GBC_S1 Homo saplens cDNA clone IMAGE:2701679 3'	xn89f12.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2701679 3'	w11f10.x1 NCI_CGAP_Bm52 Home saplens cDNA clone IMAGE:2259403 3' similar to TR:Q15265 Q15265 PROTEIN TYROSINE PHOSPHATASE;	Homo sapiens solute carrier family 22 (organic cation transporter), member 1-like (SLC22A1L), mRNA	Homo sapiens solute carrier family 22 (organic cation transporter), member 1-like (SLC22A1L), mRNA	Homo sapiens huntingtin (HD) gene, exon 37	Homo sapiens hypothetical protein FLJ12455 (FLJ12455), mRNA	Homo sapiens ASH2L gene, complete cds, similar to Drosophila ash2 gene	Homo saplens complement component 5 (C5) mRNA	Homo saplens cysteine-rich repeat-containing protein S52 precursor, mRNA, complete cds	Hamo sapiens cysteine-rich repeat-containing protein S52 precursor, mRNA, complete cds	Homo sapiens E1A binding protein p300 (EP300) mRNA	Homo sapiens hepatic leukemia factor (HLF), mRNA	Homo sapiens hepatic feukemia factor (HLF), mRNA	zw63g08.r1 Scares_total_fetus_Nb2HF8_9w Homo sapiens cDNA clone IMAGE:774782.61	Homo saplens zinc finger protein 277 (ZNF277), mRNA	Homo sapiens mRNA for MEGF2, partial cds	Homo sapiens chromosome 21 open reading frame 18 (C21ORF18), mRNA	Homo sapiens neuronal cell adhesion molecule (NRCAM) mRNA	Homo saplens protocadherin alpha 13 (PCDH-alpha13) mRNA, complete cds	Horno sapiens mRNA for KIAA0679 protein, partial cds	Homo sapiens glycogenin-1L mRNA, complete cds	Homo saplens axonal transport of synaptic vesicles (ATSV) mRNA	Human cbl-b truncated form 1 lacking leucine zipper mRNA, complete cds
Top Hit Database Source	EST_HUMAN	EST_HUMAN	EST_HUMAN	Z	N.	NT	Z	EST_HUMAN	EST_HUMAN	EST_HUMAN	LN TN	F	Ę	L	Ł	٦N	NT	N	LN.	L	FZ	EST HUMAN	NT.	Z	٦.	Ļ	TN	NT	ΝΤ	۲٦	NT
Top Hit Acession No.	1	5.0E-94 BF529115.1		5.0E-94 D25217.2	9558724 NT	L05094.1	4506008 NT		4.0E-94 AW197851.1	4.0E-94 A1591312.1	11440670 NT	11440670 NT		11545792 NT	3.0E-94 AB022785.1	32506		3.0E-94 AF167706.1	4557558 NT	11427779 NT	27779	3.0E-94 AA464805.1	6268	3.0E-94 AB011536.1	11526228 NT	4826863 NT	3.0E-94 AF152309.1	4 AB014579.1	4 AF087942.1	4757821 NT	
Most Similar (Top) Hit BLAST E Value	5.0E-94	5.0E-94	5.0E-94	5.0E-94	5.0E-94	4.0E-94 L05094.1	4.0E-94	4.0E-94	4.0E-94	4.0E-94	4.0E-94	4.0E-94	4.0E-94 L27386.1	4.0E-94	3.0E-94	3.0E-94	3.0E-94	3.0E-94	3.0E-94	3.0E-94	3.0E-94	3.0E-94	3.0E-94	3.0E-94 /	3.0E-94	3.0E-94	3.0E-94/	3.0E-94	3.0E-94 /	3.0E-94	3.0E-94 U26711.1
Expression Signal	1.29	1.11	9.99	1.5	1.86	2.64	0.92	1.38	1.38	2.87	1.82	1.82	1.18	1.5	1.44	0.88	1.19	1.19	2.61	1.27	1.27	0.83	3.41	1.33	4	1.7	1.18	4.35	5.23	3.26	1.94
ORF SEQ ID NO:			30619				28111		29054	30038	32143	32144		36429	26005			1	-	27534	ı	29534	31301	31800			33923	34322	35326	36983	37596
- ω	Ш							ı	16414	17403	19145	19145	19473	23198	13375				_	_	- !	- 1	- 1	- 1				21178			24274
Probe SEQ ID NO:	6910	8537	12209	12756	12761	1834	2662	3661	3661	4669	6376	6376	6812	11431	597	704	1733	1733	1765	2073	2073	4166	5595	8059	6360	7696	8038	8486	9492	11043	11679

Page 412 of 536 Table 4 Single Exon Probes Expressed in Brain

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Single Exon Probes Expressed in Brain	Top Hit Descriptor	wi30h11.x1 NCI_CGAP_Co16 Homo sapiens cDNA clone IMAGE:2391813 3'	wi30h11.x1 NCI_CGAP_Co16 Homo sapiens cDNA clone IMAGE:2391813 3'	601175762F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3531038 5	601111696F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3352559 5	601111696F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3352559 5	Homo sapiens hypothetical protein (FLJ20746), mRNA	Escherichia coli K-12 MG1655 section 159 of 400 of the complete genome	DKFZp434G0314_r1 434 (synonym: htes3) Homo sapiens cDNA clone DKFZp434G0314 5'	y87f02.r1 Soares Infant brain 1NIB Homo sapiens cDNA clone IMAGE:45053 5'	AV725992 HTC Homo sapiens cDNA clone HTCBEF05 5'	Homo sapiens chromosome 21 segment HS21C004	Homo sapiens chromosome 21 segment HS21C004	Homo sapiens paired box gene 5 (B-cell lineage specific activator protein) (PAX5), mRNA	601468748F1 NIH_MGC_67 Homo saplens cDNA clone IMAGE:3872099 5'	Homo sapiens IL-1 receptor antagonist IL-1Ra (IL-1RN) gene, alternatively spliced forms, complete cds	ap22e02.x1 Schiller oligodendroglioma Homo sapiens cDNA clone IMAGE:1956122 3' similar to TR:Q62845 Q62845 NEURAL CELL ADHESION PROTEIN BIG-2 PRECURSOR.;	Homo sapiens KIAA0164 gene product (KIAA0164), mRNA	601175762F1 NIH_MGC_17 Homo sapiens cDNA clone [WAGE:3531038 5]	601175762F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3531038 57	Homo sapiens TNF-alpha stimulated ABC protein (ABC50) mRNA, complete cds	Homo sapiens KIAA0255 gene product (KIAA0255), mRNA	Homo sapiens KIAA0255 gene product (KIAA0255), mRNA	M.musculus glyT1 gene (exons 1c and 2)	M.musculus glyT1 gene (exons 1c and 2)		we09e04.x1 NCI_CGAP_Lu24 Homo saplens cDNA clone IMAGE:2340606 3' similar to gb:K00558 TUBULIN ALPHA-1 CHAIN (HUMAN):	priese CDMA close IMAGE 2340808 3' similar to ob-K00558				Homo sapiens proteasome (prosome, macropain) 26S subunit, non-ATPase, 11 (PSMD11), mRNA
lle Exon Proc	Top Hit Database Source	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	NT	TN	EST HUMAN	EST_HUMAN	EST HUMAN	NT	M	NT	EST_HUMAN	LN FN	EST HUMAN	٦.	EST_HUMAN	EST_HUMAN	TN	NT	NT	NT	Ŋ	Ŋ	NAMIH TRA		EST_HUMAN	TN	TN	L/L
Sing	Top Hit Acession No.	AI910393.1	AI910393.1	4 BE295714.1	BE253433.1	BE253433.1	9506692 NT	1.0E-94 AE000269.1		108270.1	1.0E-94 AV725992.1	1L163204.2	1.0E-94 AL163204.2	11428710 NT	1.0E-94 BE780478.1	1.0E-94 U65590.1	1.0E-94 AI272244.1	11418871 NT	1.0E-94 BE295714.1	1.0E-94 BE295714.1	9.0E-95 AF027302.1	32027	7662027			9.0E-95 AF274753.1	9 0E-05 A1700008 1	11,00000.1	8.0E-95 AI700998.1	11419376 NT		11426529 NT
	Most Similar (Top) Hit BLAST E Value		2.0E-94	1.0E-94 E	1.0E-94 E	1.0E-94 E	1.0E-94	1.0E-94 /	1.0E-94/	1.0E-94 H08270.1	1.0E-94 /	1.0E-94 /	1.0E-94 /	1.0E-94	1.0E-94	1.0E-941	1.05-94	1.0E-94	1.0E-94	1.0E-94	9.0E-95	9.0E-95	9.0E-95	9.0E-95 X82569.1	9.0E-95	9.0E-95	8 0E 05	2000	8.0E-95	8.0E-95	8.0E-95	8.0E-95
	Expression Signal	0.7	0.7	1.94	2.07	2.07	1.7	0.64	0.73	0.72	0.58	0.63	0.63	2.76	2.04	3.08	2.82	172	1.45	1.51	1.93	1.45	1.45	1.33	1.33	1.77	97.0	2	3.18	0.76	1.76	1.76
	ORF SEQ ID NO:	35501	35502	25601	28492	28493	29694	31727	31922	31933	32190	33836	25855	35054	35533	36929					L		28562	30781	30782	33974	88000		29867			32898
	Exon SEQ ID NO:	22305	\mathbf{L}_{-}	12959	15851	15851	17065	18763		18959	19194	20707	20707	21886	_ ا	23673		L	L	ı	ļ	1	15916	18123	18123	20844	17325	_ [17235	1	L	Ш
	Probe SEQ ID NO:	9653	9653	4	3086	3086	4326	5982	6173	6182	6426	8012	8012	9155	9687	11000	11288	11754	12330	12608	1459	3153	3153	5320	5320	8150	1	254	4499	6849	7141	7141

Page 413 of 536 Table 4

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Single Exon Probes Expressed in Brain	Top Hit Descriptor		Homo sapiens potassium channel subunit (HERG-3) mRNA, complete cds	Homo sapiens KIAA0255 gene product (KIAA0255), mRNA	Homo sapiens KIAA0255 gene product (KIAA0255), mRNA	Homo sapiens proline dehydrogenase (proline oxidase) (PRODH) mRNA	Homo saplens mRNA for KIAA1395 protein, partial cds	Homo sapiens early growth response 2 (Krox-20 (Drosophila) homolog) (EGR2), mRNA	Homo sapiens developmental arteries and neural crest EGF-like protein mRNA, complete cds	Homo sapiens HCF-binding transcription factor Zhangfei (ZF), mRNA	zuoabulist Soares testis NHT Homo sapiens cDNA clone IMAGE:744649 3' similar to contains L1,11 L1	Home equipme DNA 6	Home septems DNA for arrived precursor protein, complete cds	Light State State of amyold precursor protein, complete cds	nomo sabiens Ly-6-like protein (CD59) mRNA, complete cds	Homo septiens chromosome 21 segment HS21C046	HTM1-288F HTM1 Hano sapiens cDNA	602071146F1 NCI_CGAP_Bm64 Homo sapiens cDNA clone IMAGE 3211117 E	Homo saplens dedicator of cyto-kinesis 1 (DOCK1) metro	EST370191 MAGE resembnes MAGE Limited	EST370191 MAGE resequence MAGE Limited Suppliers CDNA	au93b08.x1 Schneider fetal brain 00004 Homo sapiens cDNA clans MAA CE: 37293702 21 12 13	TR: 060463 060463 TYPE-2 PHOSPHATIDIC ACID PHOSPHOHYDROLASE (1)	aug3b08.x1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2783799 3 similar to		Homo capteris KIAA0763 gene product (KIAA0763), mRNA	Spragged Stranger Spragged (KIAA0763), mRNA	WEZ2121 NIH_MGC_35 Homo saplens cDNA clone IMAGE:4070451 5	Home Spring (14 Appendix Spleen 1NFLS Home sapiens cDNA clone IMAGE:194468 5'	Home seprens NIAAU233 gene product (KIAA0255), mRNA	Home septens KIAA0255 gene product (KIAA0255), mRNA	mental septems ussue inhibitor of metalloproteinase 3 (Sorsby fundus dystrophy, pseudoinflammatory) (TIMP3)	301312161E1 NIH MGC 44 Home seets - Esta	Homo sepiens G protein complete contraction in MAGE:3658862 5	Homo saplens G protein-coupled receptor 19 (GPK19) mRNA	TOTAL OF CHANGE IN COLUMN
igle Exon Pro	Top Hit Database Source		ž!	Z	Z	I N	N	Z	2 12	Z	EST HIMAN	IN	±N	L L	1	Т	╗	THUMAN		EST_HUMAN	EST HUMAN		EST_HUMAN	EST HUMAN			H IMANI	Т	NUMPI -				EST HUMAN 6			
	Top Hit Acession No.	R OF OF A COSSOSS 4	070			-05 AB027946 4	0047700	8 0F-95 A F4124 F3 4	1007	4704001	8.0E-95 AA629056.1	T			2			-95 BF 526041.1	4503354 NT	Г	-95 AW958121.1		95 AW 15/233.1		-95 7662289 NT	7662289INT	95 BF213446 1	T	7662027	7662027 NT		4507512 NT	95 BE393873.1 E	3665	5453665 NT	
	Most.Similar (Top) Hit BLAST E Value	8 OF 95	9.0E OF	8 OF OR	A 10.0	R OF OR	8 05 05	8 0F-95	8.0F-95		8.0E-95	7.0E-95	7.0E-95	7.0E-95	7 0F-05	4 05 05	4.05-93	3.05-95	3.05-95	3.0E-95 /	3.0E-95/	1000	3.05-93	3.0E-95	3.0E-95	3.0E-95	3.0E-95 B	3.0E-95 R	2.0E-95	2.0E-95		2.0E-95	2.0E-95 B	2.0E-95	2.0E-95	
	Expression Signal	197	6	100	1 4	2.84	80	100	1.86		12.4	32.81	32.81	5.18	1.3	134	4 50	8	3	1.51	1.51	- u		0.55	1.89	1.89	0.73	1.49	2,31	2.31		2.51	1.92	2.22	2.22	
	ORF SEQ ID NO:		35187	İ	35604		35994	36546	37377			25718	25719	29701	-	34971	30842	31204	10000	33027	33028	34113		34114	35107	35108	35495	36716	27072	27073		27384	27388	27880	27881	
	Exon SEQ ID NO:	L	22019	[L	22783		24069		. 1	13077	13077	17072	17117	21805	18159	25071	1005	2082	7088	20972		20972	21934	21934	22299	23475	14385	14385		14669	7/0/	15147	15147	
	Probe SEQ ID NO:	8097	9265	9265	9748	9779	10135	10613	11466		12535	769	289	4333	4380	9117	5356	2588	7269	007/	007/	8278		8278	9255	9255	9647	10792	1639	1639		1834	2	24.70	2426	
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							4.																		1		[^eq:11 1	اليلاق	H, 16.
Top Hit Descriptor	Homo sapiens glutathione S-transferase theta 2 (GSTT2) and glutathione S-transferase theta 1 (GSTT1) genes, complete cds	Homo sapiens glycine cleavage system protein H (aminomethyl carrier) (GCSH) mRNA	Homo sapiens Usurpin-gamma mRNA, complete cds	Homo sapiens unconventional myosin-15 (LOC51168), mRNA	Homo sapiens unconventional myosin-15 (LOC51168), mRNA	Homo sapiens mRNA for KIAA1386 protein, partial cds	qm01c02.x1 Soares_NhHMPu_S1 Homo sapiens cDNA clone IMAGE:1880546 3' similar to WP:T23G7.4 CE03705;	Homo sapiens hypothetical protein (HS322B1A), mRNA	Homo sapiens KIAA0187 gene product (KIAA0187), mRNA	Homo sapiens CGI-48 protein (LOC51096), mRNA	Homo sapiens CGI-48 protein (LOC51096), mRNA	Homo sapiens angiotensin I converting enzyme (peptidyl-dipeptidase A) 2 (ACE2), mRNA	Homo sapiens anglotensin I converting enzyme (peptidyl-dipeptidase A) 2 (ACE2), mRNA	Homo sapiens membrane protein, palmitoylated 3 (MAGUK p55 subfamily member 3) (MPP3), mRNA	Human muscle-type phosphofructokinase (PFK-M) gene, exon 7	Homo sapiens transcription factor 2, hepatic; LF-B3; variant hepatic nuclear factor (TCF2), mRNA	Homo saplens transcription factor 2, hepatic; LF-B3; variant hepatic nuclear factor (TCF2), mRNA	Homo sapiens cillary dynein heavy chain 9 (DNAH9) mRNA, complete cds	Homo seplens huntingtin (Huntington disease) (HD), mRNA	Homo sapiens ribophorin II (RPN2), mRNA	Homo saplens KIAA1065 protein (KIAA1065), mRNA	Homo sapiens bone morphogenetic protein receptor, type IA (BMPR1A) mRNA	Homo sapiens KIAA0763 gene product (KIAA0763), mRNA	Homo sapiens KIAA0763 gene product (KIAA0763), mRNA	Homo sapiens glutathione S-transferase theta 2 (GSTT2) and glutathione S-transferase theta 1 (GSTT1)	genes, complete cds	Homo sapiens adenylosuccinate Iyase (ADSL), mRNA	zt23h04.r1 Soares ovary tumor NbHOT Homo sapiens cDNA clone IMAGE:714007 5' sImilar to TR:G1067084 G1067084 F55H2.6;	ztz3h04.r1 Soares ovary tumor NbHOT Homo sapiens cDNA clone IMAGE:714007 5' similar to TR:G1067084 G1067084 F56H2.6;	
Top Hit Database Source	TN	LN	TN	N	TN	TN	EST_HUMAN	N	LN LN	TN	TN	IN	TN	LΝ	LN PL	ΤN	NT.	TN	LN	NT.	NT	NT	TN	NT		N _T	NT	EST_HUMAN	EST_HUMAN	
Top Hit Acession No.	AF240786.1	4758423 NT	AF015452.1	7705900 NT	7705900 NT	AB037807.1	AI290264.1	7657185 NT	7661979 NT	7705764 NT	7705764 NT	11225608 NT	11225608 NT	11525883 NT	M59724.1	11427182 NT	11427182 NT	AF257737.1	11435773 NT	11421795 NT	11434330 NT	4757853 NT	7662289 NT	7662289 NT		AF240786.1	11418164 NT	AA284651.1	AA284651.1	
Most Similar (Top) Hit BLAST E Value		2.0E-95	2.0E-95	2.0E-95	2.0E-95		2.0E-95		2.0E-95	2.0E-95	2.0E-95	2.0E-95	2.0E-95	2.0E-95	2.0E-95	2.0E-95	2.0E-95		2.0E-95	2.0E-95	2.0E-95	2.0E-95	2.0E-95	2.0E-95		2.0E-95/	2.0E-95	1.0E-95	1.0E-95	
Expression Signal	3.28	1.85	1.96	3.07	3.07	1.29	0.68	1.32	272	4.21	4.21	1.27	1.27	0.7	5.04	1.16	1.16	2.45	1.82	1.06	0.84	2.46	3.02	3.02		2.3	4.66	8.41	8.41	
ORF SEQ ID NO:	27925	27973		28956	28957	28998	29122	29695	30308	30884	30885	31319	31320		31794	32122		32243	32617			36557		37621			30994	31226	31227	
Exon SEQ ID NO:	15186	15233	15918	ļ	16307	16358	16485	17067	17701	i		18407	18407		18831	19128	i 1	19243	19583		22928			24295		24724	24980	18325	18325	
Probe SEQ ID NO:	2468	2517	3155	3552	3552	3605	3732	4328	4978	5392	5392	5611	5611	5651	6051	6358	6358	6476	9999	9041	10280	10624	11700	11700		12299	12698	5527	5527	

PCT/US01/00667

Page 415 of 536 Table 4 Single Exon Probes Expressed in Brain

1/57275	Т	- Т	Т	Т	T	Ţ	<u> </u>	Τ	Τ	T	Τ	T	Τ	Τ	Τ	Т	Т	Т	T [#]	<u>71 (7</u>		ř	Ť		F	P	CI	/U	S0	1/0	***	667	
Top Hit Descriptor	RC6-FN0019-290600-011-G11 FN0019 Homo sapiens cDNA	RC6-FN0019-290600-011-G11 FN0019 Homo sapiens cDNA	601437232F1 NIH MGC 72 Homo sapiens cDNA clone IMAGE:3922423 5	PM0-LT0019-090300-002-d09 LT0019 Homo sapiens cDNA	Homo sapiens chromosome 21 unknown mRNA	Human glyceraldehyde-3-phosphate dehydrogenase pseudogene 3'end	Homo sapiens sialytransferase 6 (N-acetyllacosaminide alpha 2.3-sialytransferase) (SIAT6). mRNA	Homo sapiens KIAA0763 gene product (KIAA0763), mRNA	Homo sapiens KIAA0763 gene product (KIAA0763), mRNA	Homo sapiens myosin, heavy polypeptide 2, skeletal muscle, adult (MYH2), mRNA	Homo sapiens KIAA0763 gene product (KIAA0763), mRNA	Homo sapiens KIAA0763 gene product (KIAA0763), mRNA	Homo saplens mRNA for KIAA1172 protein, partial cds	Homo saplens mRNA for KIAA1172 protein, partial cds	Homo sapiens mRNA for KIAA1172 protein, partial cds	Homo sapiens phosphodiesterase 6A, cGMP-specific, rod, alpha (PDE6A), mRNA	H.sapiens DNA for monoamine oxidase type A (7) (partial)	Homo sapiens NOD1 protein (NOD1) gene, exons 1, 2, and 3	Homo sapiens A kinase (PRKA) anchor protein 1 (AKAP1), mRNA	Homo sapiens A kinase (PRKA) anchor protein 1 (AKAP1), mRNA	Homo sapiens mRNA for KIAA0960 protein, partial cds	Homo sapiens mRNA for 14-3-3gamma, complete cds	Human type IV collagenase (CLG4B) gene, exon 5	Human type IV collagenase (CLG4B) gene, exon 5	Homo sapiens KIAA0175 gene product (KIAA0175), mRNA	yr87h12,r1 Soares fetal fiver spleen 1NFLS Homo sapiens cDNA clone IMAGE:212327 5	Homo sapiens chondroitin sulfate proteoglycan 4 (melanoma-associated) (CSPG4), mRNA	Homo sapiens chromosome 21 segment HS21C048	RC3-HT0230-040500-110-g02 HT0230 Homo sapiens cDNA	QV4-GN0120-250900-427-b12 GN0120 Homo sapiens cDNA	QV4-GN0120-250900-427-b12 GN0120 Homo sapiens cDNA	AV689461 GKC Homo sapiens cDNA clone GKCFMD07 5'	2819351.5prlme NIH_MGC_7 Homo sapiens cDNA clone IMAGE:2819351 5'
Top Hit Database Source	EST HUMAN	Γ	Γ	Т		LI								IN	LN		FN	LN			LZ	LN		NT.	LN	THUMAN		LN	EST_HUMAN	Γ.	EST_HUMAN		EST_HUMAN
Top Hit Acession No.	1.0E-95 BF370000.1	1.0E-95 BF370000.1	E897259.1	/836047.1	Γ		11422642 NT	7662289 NT	7662289 NT	TN 6823939 NT	7662289 NT	7662289			5.0E-96 AB032998.1	1416767		5.0E-96 AF149773.1	11424399 NT	11424399 NT		:1			7661973		4503098 NT				2.0E-96 BF369731.1	689461.1	1249440.1
Most Similar (Top) Hit BLAST E Value	1.0E-95 E	1.0E-95 E	9.0E-96 BE	8.0E-96	7.0E-96	6.0E-96 M2	6.0E-96	6.0E-96	6.0E-96	6.0E-96	6.0E-96	6.0E-96	5.0E-96 AB	5.0E-96 A	5.0E-96	5.0E-96	5.0E-96 X60812.1	5.0E-96 A	5.0E-96	5.0E-96	5.0E-96 A	5.0E-96 A	5.0E-96 M68347.1	5.0E-96 M68347.1	5.0E-96	3.0E-96 H68656.1	2.0E-96	2.0E-96 AL	2.0E-96 E	2.0E-96 E	2.0E-96 E	2.0E-96 A	2.0E-96 AW
Expression Signal	4.3	4.3	1.49	2.77	0.74	20.13	0.74	3.36	3.36	2.05	1.83	1.83	2.74	4.08	4.08	1.43	1.39	1.15	5.18	5.18	0.71	1.98	1.35	1.35	1.4	12.32	4.24	0.91	1.89	0.62	0.62	5.63	2.81
ORF SEQ ID NO:	33175	33178				28886	31258	37439		37498	37692	37693	25754	26260	26261				32639	32640	32706	33177	33828	33829	37715			26159	30072	33120	33121		
SEQ ID NO:	20091	20091	20788	18223	16839	16232	18349	24134	24134	24183	24360		1				17576	1	19601	19601	19659	20092	20700	20700	24383	16908	13191	13504	17440	20042	20042	21570	24543
Probe SEQ ID NO:	7414	7414	8094	5424	3889	3476	5552	11534	11534	11584	11769	11769	312	822	822	2624	4846	6553	6684	6684	6923	7415	8005	8005	11793	4168	406	730	4708	7361	7361	8879	12009

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Table 4
Single Exon Purbes Exercise

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											$\ \ _{\perp}$.							10.	"	1	"				F	1	1	T		T
Top Hit Descriptor	Homo sablens neuronal pall arthonia	Home septem more all authority and the control of t	Himen endozens	ESTABRAZA MACE	ECT36131 MAGE resequences, MAGC Homo saplens cDNA	ESTSOTIZE MAGE resequences, MAGC Homo sapiens cDNA	Homo sapiens transient recent recent chariful a recent complete cds	Home sarriene missing and selection of the Color man American	Home septem USDA 44 The First Washington (KIAA0277), mRNA	Homo seniens HSDC444 meters (HSDC44), mRNA	Homo saplens similar to ectonucleotide pyrophosphatase/phosphodiestarase 3 (H. saplens) (I. OCR3214)	YANGII	Homo sapiens secretory pathway component Sec31B-1 mRNA, alternatively spliced, complete cds	Homo sapiens mRNA for KIAA1290 protein, partial cds	Homo sapiens mRNA for KIAA1290 protein, partial cds	Home sapiens neuronal cell adhesion molecule (NRCAM) mRNA	il 5 UTA417 A4400 00 00 00 00 00 00 00 00 00 00 00 00	BOATAROATE ALLI USB-504-U07 H I 0117 Homo sapiens cDNA	6044034751 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3925133 5	COLITION IN INTERMINED A HOUR SAPIENS CONA Clone IMAGE:3925133 5	EST20872 Authorse ussue, white II Homo sapiens cDNA 5' end	Human mRNA for slobe activity	DKFZP434N0323 11 434 (swpomm blees) Home conject CNM 1	2νθ7e12.s1 Soares NhHMPu_S1 Homo sapiens cDNA clone IMAGE:767788 3' similar to TR:64304355	GISU4125 PMS4 MRNA	NCU-5 10512-250900-032-a09 BT0812 Homo sapiens cDNA	MDS 1710.0241-130500-010-502 HT0241 Homo sapiens cDNA	Micu-F110241-150500-010-b02 HT0241 Homo sapiens cDNA	Home acided BAS 142	Home section by S. 1.19 mKNA for peptidylarginine defininase type II, complete cds	Homo sapiens PAD-H19 mRNA for peptidylarginine deiminase type II, complete cds
Top Hit Database Source	NT	Ę	Į.	FST HIMAN	EST HIMAN	L L	Į.	Z	Į	L L			1			-	EST HIMAN	Т	Т	_	EST HIMAN	7-	T_HUMAN	_	ENT CINANI	7	7	7	NO.		
Top Hit Acession No.	4826863 NT		Y18890.1	AW955054.1	AW955054.1	U51472.2	6912735 NT	6912455 NT	7661803 NT	7661803 NT	TA 0020 NT	1 0E-96 AF274863 1	T	80334464	4826863	4826863 NT	141849 1	898012 1	ı	ļ	320332.1	1804.1	43314.2	5.0E-97 AA418028 1		T	Ī	Ī			53572
Most Similar (Top) Hit BLAST E Value	1.0E-96	1.0E-96	1.0E-96	1.0E-96	1.0E-96	1.0E-96	1.0E-96	1.0E-96	1.0E-96	1.0E-96	1.0E-98	1.05-96	1.0E-96	1.0E-96.A	1.0E-96	1.0E-96	6.0E-97 BF	6.0E-97	6.0E-97	6.0E-97	6.0E-97	6.0E-97 X15	5.0E-97 AL	5.0E-97/A	5.0E-97 BF154912 4	5.0E-97 B	5.0E-97 BF148597 4	4.0E-97 BE004436.1	4.0E-97 AB030176.1	4.0E-97 AB030176.1	4.0E-97
Expression Signal	2.6	2.6	3.38	2.58	2.56	1.08	1.3	0.67	1.24	1.24	20.66	2.09	1.24	1.24	1.97	1.97	2.6	69.0	0.69	0.57	0.57	1.46	191	11.73	2.66	1.98	1.98	1.59	1.04	1.04	1.07
ORF SEQ ID NO:					27217	27729	30541	32447	33938	33939	34450	34588	35924	35925	26016	26017		34670	34671	36369	36370	37290	33739	33869	35412	37441	37442	26349	26359	26360	27349
Exon SEQ ID NO:	\perp L	_1		i	- 1	15527	17946	2	20805	20805	21308	21441	22707	22707	13386	13386	20131	21524	21524	23143	23143	23989	20608	20736	22227	24135	24135	13685	13695	13695	14640
Probe SEQ ID NO:	808	8	929	1774	1774	2262	688	2 3		8111	8616	8749	10059	10059	11999	11999	7457	8832	8832	10497	10497	11382	200	8042	9574	11535	11535	918		_1	1903

Page 417 of 536 Table 4 Single Exon Probes Expressed in Brain

1/57275	_	_ T		η-	T-	_	т	_	_	_	r	_	_	_	_		_	-	- T) Park		1	personal Variation	PC	T	/U			06:		des. (8)
Top Hit Descriptor	Homo sapiens apolipoprotein H (beta-2-glycoprotein I) (APOH) mRNA	Human N-methyl-D-aspartate receptor modulatory subunit 2A (hNR2A) mRNA; complete cds	Human N-methyl-D-aspartate receptor modulatory subunit 2A (InNR2A) mRNA, complete cds	Homo sapiens mRNA for GalNAc alphe-2, G-sialytransferase I, long form	Homo sapiens mRNA for GalNAc alpha-2, 6-slalytransferase I, long form	Homo sapiens ligase III, DNA, ATP-dependent (LIG3), transcript variant alpha, mRNA	Homo sapiens cystic fibrosis transmembrane conductance regulator, ATP-binding cassette (sub-family C, member 7) (CFTR), mRNA	Homo sapiens laminin, alpha 2 (merosin, congenital muscular dystrophy) (LAMA2) mRNA	Homo sapiens v-src avian sarcoma (Schmidt-Ruppin A-2) viral oncogene homolog (SRC), mRNA	Homo sapiens cytochrome P450, subfamily IVB, polypeptide 1 (CYP4B1), mRNA	Homo sapiens mRNA for KIAA0594 protein, partial cds	Homo sapiens mRNA for KIAA0594 protein, partial cds	Homo sapiens AXL receptor tyrosine kinase (AXL), transcript variant 1, mRNA	Homo saplens AXI, receptor tyrosine kinase (AXI.), transcript variant 1, mRNA	Homo saplens mRNA, similar to rat myomegalin, complete cds	Homo saplens mRNA for KIAA1290 protein, partial cds	Homo saplens mRNA for KIAA1290 protein, partial cds	Homo saplens G-2 and S-phase expressed 1 (GTSE1), mRNA	Homo sapiens mRNA for KIAA1172 protein, partial cds	Homo sapiens amyloid beta (A4) precursor protein (protease nexin-II, Aizheimer disease) (APP), mRNA	Homo sapiens amyloid beta (A4) precursor protein (protease nexin-II, Alzheimer disease) (APP), mRNA	Homo sapiens N-myc (and STAT) interactor (NMI), mRNA	Human beta-prime-adaptin (BAM22) gene, exon 7	Homo saplens pericentrin (PCNT) mRNA	Homo sapiens eukaryotic translation elongation factor 1 alpha 1 (EEF1A1) mRNA			RC0+HT0268-211199-011-g05 HT0258 Homo sapiens cDNA	yf38c08.s1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:129134 3'		Homo saplans KIAA0649 gene product (KIAA0649), mRNA
Top Hit Database Source	FZ	E	FN.	LN	L	ᅜ	k	NT.	LN	F	LΝ	ΝΤ	IN	TN	LN	TN	NT	L	TN	LN T	Ę	F	TN	TN	Į.	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	IN	Ļ
Top Hit Acesslan No.	4557326 NT					7710125 NT	11422155 NT	4557708 NT	11421793 NT	23233		4.0E-97 AB011166.1	11863122	3122			4.0E-97 AB033116.1	11418318 NT	3.0E-97 AB032998.1	4502166 NT	4502166 NT	4758813 NT	U36255.1	5174478 NT	470	Г		1.0E-97 AW379976.1		11427757	11427757 NT
Most Similar (Top) Hit BLAST E Value	4.0E-97	4.0E-97	4.0E-97 U09002.1	4.0E-97 Y11339.2	4.0E-97 Y1	4.0E-97	4.0E-97	4.0E-97	4.0E-97	4.0E-97	4.0E-97	4.0E-97	4.0E-97	4.0E-97	4.0E-97	4.0E-97	4.0E-97	4.0E-97	3.0E-97	3.0E-97	3.0E-97	3.0E-97		3.0E-97	1.0E-97	1.0E-97 E	1.0E-97 A	1.0E-97	1.0E-97 R1	1.0E-97	1.0E-97
Expression Signal	0.61	0.95	0.95	6.47	6.47	1	1.05	0.57	2.63	0.75	1.23	1.23	1.88	1.88	3.61	1.62	1.62	7.76	1.14	29.53	29.53	1.29	1.68	1.3	12.99	2.48	1.16	1.16	1.6	3.44	3.44
ORF SEQ ID NO:		31482				32703	32468	33863	34087								36412		25685	26294	26295	26855		28667	86008	32091				86598	36539
Exen SEQ ID NO:			18556	19559	19559	19657	19450		20950		21878	_		23786	- 1			24652	13046	13624	13624	15569	l	16016	17461	19103	20415	20415			23298
Probe SEQ ID NO:	5478	5765	5765	6725	6725	6921	8969	8036	8256	8518	9147	9147	11116	11116	11412	11415	11415	12180	236	854	854	1422	2440	3254	4729	6333	9344	9344	9664	10604	10604

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W	O 01/57275		T	Т	7	7	_		_	_	_	_	_	_	-	r				_	11		<u>-</u>	\searrow	<u></u>	n 11		P	CT	YU	S	1/0)0 <i>6</i>	667
Single Exon Probes Expressed in Prair	Top Hit Descriptor		nKZ90Z.s1 NCI_CGAP_Co11 Homo sapiens cDNA clone IMAGE:1014962 3'	nomo sapiens ribosomal protein S15 (RPS15), mRNA	Homo sapiens ribosomal protein S15 (RPS15), mRNA	FM4-B 10724-010400-008-a12 BT0724 Homo sapiens cDNA	Homo saplens cat eye syndrome critical region gene 1 (CECR1), mRNA	Homo sapiens CLDN12 gene for claudin-12	Homo sapiens leucyl-tRNA synthetase, mitochondrial (KIAA0028), mRNA	Homo saplens A kinase (PRKA) anchor protein (yotiao) 9 (AKAP9), mRNA	Homo sapiens death-associated protein (DAP), mRNA	Homo sapiens death-associated protein (DAP), mRNA	numan mkNA for amylold A4(751) protein	Homo sapiens succinate-CoA ligase, GDP-forming, alpha subunit (SUCLG1), mRNA	nomo sapiens mRNA for KIAA1365 protein, partial ods	Homo sapiens 17-beta-hydroxysteroid dehydrogenase IV (HSD17B4) gene even 8	Homo sapiens SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily e, member 3 (SMARCA3) mRNA	Homo sapiens SWI/SNF related, matrix associated, actin dependent reculping of the second	member 3 (SMARCA3) mRNA	Homo saplens inositol polyphosphate 1-phosphatase (INPP1) gene, complete cds	Homo sepiens mRNA for KIAA1005 protein, partial cds	Homo saplens mRNA for KIAA1005 protein, partial cds	Homo sapiens mitogen-activated protein kinase kinase kinase 7 (MAP3K7), mRNA	riomo sepiens mRNA for MEGF8, partial cds	riomo sapiens mRNA for MEGF8, partial cds	ptidylarginine delminase type I, complete cds		Homo sapiens PMSZL16 mRNA, partial cds	ruman mitochondrial creatine kinase (CKMT) gene, complete cds	60130/303F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3909097 5	A3403124 3.4 (downregulated in larynx carcinoma) Homo sapiens cDNA clone i8	Tromo sapers mKNA for KIAA0707 protein, partial cds	Home control of the Brain con Library Home sapiens con 7B18H01	Homo sapiens activator of S phase kinase (ASK), mRNA Homo sapiens activator of S phase kinase (ASK) mRNA
ale Exon Pr	Top Hit Database Source	100	EST HOMAN	E	FOT LIMAN	ES L DOMAN	Z	FZ		E	F	- 12	<u> </u>				<u> </u>	<u> </u>	<u> </u>	Z	1									NAMOL	LICIMAIN	T LI BAAAI	NO.	
Sin	Top Hit Acession No.	A A 553 764 4	11426272 NT	11120271	3E090973 1	Baccacca NE	0393092	1874	11440400	4758440 N	4759440 NIT	06989 1	1321580	9.0E-98 AB037786 1	Ī	Ī	4507070 NT	10000	9/9/	T	T	0000	2000	T	T	T	T	T	T	1	T	T	9210	11419210 NT
	Most Similar (Top) Hit BLAST E Value	1 0E-97	-	1.0E-97		_	9.0E-98 /	9.0E-98	9.0E-98	9.0E-98	9.0E-98	9.0E-98	9.0E-98	9.0E-98 A	9.0E-98 A		9.0E-98	90.77.0	9.0L-30 0 0E-08 A E44420E A	9 0F-08 AB022224	O OF OR ABARRARY	9.0E-98	9.0E-98/AB011541 1	9.0E-98 AB011541 1	8.0E-98 AB033768 1	8.0E-98 AB017007 1	8.0E-98 AB017007 1	8.0E-98 JO	5.0E-98 BE885873 4	3.0E-98 A.J	3.0E-98 AB014607 4	3.0E-98 AA077498 1	3.0E-98	3.0E-98
	Expression Signal	2.03	14.01	14.01	3.52	1.12	0.71	0.67	9.0	4.79	4.79	6.28	1.5	1.59	0.96		1.14	114	0.45	2.63	2.63	1.39	1.39	1.39	0.92	2.7	2.7	6.89	0.98	1.14	0.99	2.9	1.9	1.9
	ORF SEQ ID NO:	37235		36444		26670		32949	33046	33646	33647	34854	34977	35027		_	35190	35191	36026	36856	36857	36932	37776	. 37777	26774	27161	27162	29166	31735	27638	28067		32576	32577
	Exan SEQ ID NO:	LI				14002	1 1	1	19969	20520	20520	21704	21812	21862	21917		22021	22021	22808	23606	23606	23676	24434	24434	14099	14462	14462	16527	18772	14905	15324	15458	19547	19547
	Probe SEQ ID NO:	11280	11445	11445	881	1253	6210	7180	7286	7825	7825	9014	9124	9192	9238	_	9267	9267	10160	10926	10926	11004	11850	11850	1351	1719	- 1	_	ı		2613	_4		6847

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Page 419 of 536 Table 4 Sindle Exon Probes Funces of i

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Single Exon Probes Expressed in Brain	Top Hit Descriptor		yo17g09.r1 Soares adult brain N2b5HB55Y Homo saplens cDNA clone IMAGE:478230 Et	Homo sapiens uncharacterized bone marrow protein BM039 (BM039) mRNA	AJ403124 3.4 (downregulated in larynx carcinoma) Home seniens CINIA Alance is	AJ403124 3.4 (downregulated in larynx carcingma) Home saniens cDNA class in	601673686F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3956517 5	Human fumarase area (17) - (17)	Homo saniens (hirs) mbNA	604 ACCEPTED INTO HIS COMPIETE COS	UNITATIONAL MINIMAGE 19 Homo sapiens cDNA clane iMAGE:3628213 5	Tromo sapiens Ran GTPase activating protein 1 (RANGAP1), mRNA	bull/2658F1 NIH_MGC_17 Homo saplens cDNA clone IMAGE:3528134 5	Homo sapiens chromosome 21 segment HS21C002	Homo sapiens potassium channel subunit (HERG-3) mRNA, complete cds	Homo sapiens fath-ecid-Coenzyme A ligase, long-chain 4 (FACL4) mRNA	Homo sapiens attractin precursor (ATRN) gene, excn 16	Homo sapiens attractin precursor (ATRN) gene, exon 16	Homo sapiens protein tyrosine kinase 2 beta (PTK2B) mRNA	Homo sapiens PDZ domain-containing guanine nucleotide exchange factor I (I のこち1725) DNA	Homo sapiens phosphatidylinositol 3-kinase, class 2, alpha polypeptide (PIK3C2A) mBNA	Homo sapiens hypothetical protein FLJ10488 (FLJ10488), mRNA	Hamo sapiens hypothetical protein FLJ10488 (FLJ10488), mRNA	Homo sapiens SH3-domain GRB2-like 2 (SH3GL2), mRNA	Homo sapiens SH3-domain GRB2-like 2 (SH3GL2). mRNA	Homo sepiens NKAT4b mRNA, complete cds	Homo sapiens NKAT4b mRNA, complete cds	H.sapiens arginase gene exon 3 (EC 3.5.3.1)	Homo sapiens AIM-1 protein (LOC51151), mRNA	Human cytochrome P450 (CYP2A13) gene, complete oxis	W36b04.x1 NCI_CGAP_Ut1 Homo sapiens cDNA done IMAGE:2261743.3 similar to SW-RI 2R_UIMAAN I	PMA BNOGE 40000 00 NECKLOS OF THE PROTEIN L23A.	W23f05.r1 Spares fetal lives sulcan 4NEC 5.11	PIR:S64204 S54204 ribosomal protein L29 - human
igle Exon Pro	Top Hit Database Source		ESI HUMAN	I Z	ESI_HUMAN	EST HUMAN	EST_HUMAN	LN	IN	FST HIMAN	-1	FOT LINEARS	FIGURAIN FIRE	F. V	1	F.V.			-	-										Ė	# # # # # # # # # # # # # # # # # # #	T	Т	EST_HUMAN P
is s	Top Hit Acession No.	178800 4	3.0F-98	A 1403424 4	DE 00 A 1400404 4	A3403124.1	E-90 DE900454.1	3.0E-98 U59309.1	L28405.1	BE382519.1	11418477 NIT		2.0E-98 A 163202.2	T	2004	2.0E-98/AF2189021	T	50075	T706540 NT	1 1000 L	TM 4202786 IN	44424274 NIT	14.720041	11420013 N	1 1420013		I	-30 A12004.1	89860/	96 UZZUZB.1	-98 AI862007 1	1		98 N49818.1 E
	Most Similar (Top) Hit BLAST E Value	3.0F.00	3 0F-08	30F.08	3 05 00	2010	3.00	3.0E-98	3.0E-98	3.0E-98	3.0E-98	2.0E-98	2.0E-98	2.0E-98	2.0E-98	2.0E-98/	2.0E-98 4	2.0E-98	2 0F-98	2.0E-98	2.0E-98	20F-98	20F-98	20F-08	200 001	2 0F-98 / 76668 4	200	2000	200	4.0E-36 U	1.0E-98 A	1.0E-98 AN		1.0E-98 N
	Expression Signal	2.73	0.48	1.42	142	980		4.11	1.56	1.47	3.58	2.66	1.53	0.8	3.21	1.34	1.34	1.39	4.03	1.15	1.07	1.07	4.94	4.94	82.0	0.58	1 48	1 37	1 42	<u> </u>	16.4	2.12		11.24
	ORF SEQ ID NO:	34485	35030	35639	35640	36233		30/38	88//8			27531	27699	29637	29670	30129	30130	30466	30757	32329	33286	33287	34342	34343	34421	34422	35290		37103		25829	25871	10020	2/23/
	Exon SEQ ID NO:	21341	21866		22434	23017	73567	1	1 2000	70707	25013	14803	14959	17005	17045	17508	17508	17849	18097	19322	20194	20194	21198	21198	21283	21283	22115	22960	23822	-	13181	13228	14500	14028
	Probe SEQ ID NO:	8649	9197	9783	9783	10371	10872	11862	12880	0007	12751	2871	2231	4264	4306	4776	4776	5131	5292	6557	7523	7523	8206	8506	8591	8591	9437	10313	11155	-	396	442	1780	3
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	6562								¥.	AN					Ī	["	ľ	1	1	1	ll d ^a)	الدوا		144	1	100	THE	7	1	<u>, a 1</u>
Top Hit Descriptor	7p98c09.r1 Stratagene muscle 837209 Homo sapiens cDNA clone IMAGE:628240 5' similar to TR:G806562 G806562 NEBULIN.	801284986F1 NIH MGC 44 Homo saniens cDNA clone IMAGE 3606602 51	801284986F1 NIH MGC 44 Home sabiens cDNA clone IMAGE:3808692 5	Homo sapiens beta-tubulin mRNA, complete cds	Homo sapiens beta-tubulin mRNA, complete cds	QV-BT073-191298-012 BT073 Homo saplens cDNA	QV-BT073-191298-012 BT073 Homo sapiens cDNA	EST380711 MAGE resequences, MAGJ Homo sapiens cDNA	The 8h07.x1 NCI_CGAP_BIN25 Homo septens cDNA clone IMAGE:2163421 3' similar to SW:BID_HUMAN P55957 BH3 INTERACTING DOMAIN DEATH AGONIST	Im69h07.x1 NCI_CGAP_Bm25 Homo sapiens cDNA done IMAGE:21634213' similar to SW:BID_HUMAN P55957 BH3 INTERACTING DOMAIN DEATH AGONIST:	2090402.r1 Stratagene lung carcinoma 937218 Homo sapiens cDNA clone IMAGE:565443 5' simitar to TR:0862994 G662994 GPI-ANCHORED PROTEIN P137	Human endogenous retrovirus, complete genome	Homo sapiens oscillin (hLn) gene, exon 5	Homo sapiens NK-receptor (KIR-G2) gene. Inker region exon	Human G2 protein mRNA, partial cds	EST388473 MAGE resequences, MAGN Homo sapiens cDNA	Homo sapiens CD34 antigen (CD34) mRNA	Homo sapiens GAP-like protein (LOC51306), mRNA	Homo sapiens polycystic kidney disease (PKD1) gene, exons 27-30	Homo sepiens polycystic kldney disease (PKD1) gene, exons 27-30	H.sapiens mRNA for estrogen receptor	Homo sapiens ankyrin-like with transmembrane domains 1 (ANKTM1), mRNA	Homo sapiens NDST4 mRNA for N-deacetylass/N-sulfotransferase 4, complete cds	Homo sapiens Iodestar protein mRNA, complete cds	Homo sapiens lodestar protein mRNA, complete ods	Homo sapiens inositol 1,4,5-triphosphate receptor, type 1 (ITPR1), mRNA	Homo sapiens inositol 1,4,5-triphosphate receptor, type 1 (ITPR1), mRNA	Homo sapiens BH3 interacting domain death agonist (BID), mRNA	Homo sapiens UDP-glucose:glycoprotein glucosyltransferase 1 (HUGT1), mRNA	Homo septens UDP-gluçose:glycoprotein glucosyltransferase 1 (HUGT1), mRNA
Top Hit Database Source	EST HUMAN	EST HUMAN	EST HUMAN	LN	Į.	EST_HUMAN	EST HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST HUMAN	L	LN	NT	LN.	EST HUMAN	۲	Z	NT	LN T	노	N	NT	TN	LN	TN		LN	ΤN	ΤN
Top Hit Acession No.	AA195854.1	BE390627.1	BE390627.1	AF141349.1	AF141349.1	AI905004.1	Al905004.1	AW968635.1	AI479829.1	AI479829.1	AA134604.1	35487	AF035808.1		U10991.1	AW976364.1	4502660	T706136 NT			X99101.1	1589	AB036429.1	AF080255.1	AF080255.1	11431994	11431994	11526299 N	9910279 NT	1N 6720166
Most Similar (Top) Hit BLAST E Value	1.0E-98	1.0E-98	1.0E-98	1.0E-98	1.0E-98		9.0E-99	60-30'6	9.0E-99	9.0E-99	9.0E-99	8.0E-99	7.0E-99		6.0E-99	6.0E-99	6.0E-99	6.0E-99	6.0E-99	6.0E-99		6.0E-99			6.0E-99	6.0E-99	6.0E-99	6.0E-99	6.0E-99	6.0E-99
Expression Signal	3.4	1.1	1.1	2.7	2.7	0.88	0.88	4.21	2.75	2.75	2.13	1.96	10.03	2.99	1.89	1.15	1.21	0.72	1.01	1.01	1.18	0.53	2.28	3.33	3.33	9.0	9.0	3.89	2.01	2.01
ORF SEQ ID NO:	30668	31178	31179	34726	34727	31441	31442	31691	37009	37010	37298	34461	31458	37532	25886	29258	30064	32270	32354	32355	33826	33849	34502	34602	34603	34657	34658	36553	36431	36432
Exon SEQ ID NO:		18281	18281	21587				18731	23736	23736	23996	21319	18535	24208	13244	16618	17433		1	18341	20698	20717	21355	21454	21454	21513	21513	23313	23200	23200
Probe SEQ ID NO:	5234	5482	5482	8896	8836	5728	5728	5949	11066	11066	11390	8627	5743	11610	459	3868	4699	6503	6578	6578	883	8022	8863	8762	8762	8821	8821	10620	11433	11433

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Single Exon Probes Expressed in Brain	Top Hit Descriptor		H.saplens IMPA gene, exon 8	Homo saplens T cell receptor beta locus, TCRBV7S3A2 to TCRBV19S2 region	601513157F1 NIH MGC 71 Homo sapiens cDNA close IMAGE 2012 19901	Human E2A/HLA fusion protein (E2A/HLF) mRNA, complete cds	xp09e06.x1 NCI_CGAP_HN9 Homo sapiens cDNA clone IMAGE:2739874.3' similar to ch. M23222	LIGHT CHAIN ALKALI, NON-MUSCLE ISOFORM (HUMAN);	Homo saplens short chain L-3-hydroxyacyf-CoA dehydrogenase premierar (HADHSC).	encoding mitochondrial protein, complete cds	2b46d06.r1 Soares_fetal_lung_NbHL19W Homo septens r-DNA reveal NAADE accept r-i	gb:M15182 BETA-GLUCURONIDASE PRECURSOR (HUMAN):	y81b09.r1 Soares placenta Nb2HP Homo sapiens cDNA clone IMAGE-145625 5	Homo sapiens myosin X (MYO10) mRNA, complete cds	riomo sapiens potassium channel, subfamily K, member 10 (KCNK10), mRNA	Homo saplens intersectin long isoform (ITSN) mRNA, complete cds	Homo sapiens GA-binding protein transcription factor, alpha subunit (60kD) (GABPA)	Human Ku (p70/p80) subunit mRNA, complete cds	Homo sapiens truncated Niemann-Pick C3 protein (NPC3) mRNA, complete cds	Homo sapiens truncated Niemann-Pick C3 protein (NPC3) mRNA, complete cds	Homo sapiens FK506-binding protein 6 (36kD) (FKBP6) mRNA, and translated products	רוניות Sapiens FK506-binding protein 6 (36kD) (FKBP6) mRNA, and translated products	numan interferon-alpha receptor (HuiFN-alpha-Rec) mRNA, complete cds	runio sapiens fatty acid amide hydrolase (FAAH) gene, exon 14	righto sapiens fatty acid amide hydrolase (FAAH) gene, exch 14	Homo sapiens cell recognition molecule Caspr2 (KIAA0868), mRNA		Homo saplens glycine receptor, alpha 2 (GLRA2), mRNA	H.sapiens E6-AP gene exon 2	Homo septens ALEX1 protein (LOC51309), mRNA	O02744 BBO BOLD STEE T GBC S1 Homo sapiens cDNA clone IMAGE:2908371 3' similar to TR-002744 BBO BOLD STEE STEE STEEL TR-002744 BBO BOLD STEEL TR-002744 BBO BOLD STEEL S	Home scales by the POLYPROTEIN;	Homo sapiens runungtin interacting protein 1 (Hip1), mRNA Homo sapiens himfindin interacting
igle Exon Pro	Top Hit Database Source		Z !	L	EST HUMAN	L		L TOWAN		Z		EST HUMAN	ES HOMAN	Z				Z													EST HIMAN	No.	
	Top Hit Acession No.	V4436E 4	A E00000 4	F000477.4		3.UE-99 M95586.1	AW274702 1	2.0E-99 M30938,1		Ţ		23507.1	247457 0	3000	1.0E-99 AF114487 1	204.50	11320130	102523 4		3720	4503730 NT		T	1.0E-99 AF098018 1 NIT	9,8	T14240421	44424007 N	11421007	Ĭ	11419721 NT	1.0E-99 AW340174.1 Es	7514	7427514 NT
Most Similar	(Top) Hit BLAST E Value	5 0F-00 V	5 OE 00	5 OF O	9.0L-98	3.UE-98	2.0E-99	2.0E-99	2 OF.80	2.0E-99	205.00	2.0E-99 W	2 0F-00	2.0F-99	1.0E-99	1 0F-90	1 0E-99 M2	1.0E-90	1.0E-99	1.0E-99	1.0E-99	1.0E-99 J03171 1	1.0E-99/	1.0E-99/	1.06-99	1.0F-99	1 OF-00	1 OF 00 YOU	12.	88-00.	1.0E-99 A	1.0E-99	1.0E-99
	Expression Signal	1.38	1.58	281	8	8	6.88	1.29	1.04	0.58	9 55	0.76	3.39	1.46	1.63	1.02	2.09	2.64	2.64	1.41	1.41	1.36	2.82	2.82	0.68	1.28	1.28	0.76	1 40	<u>F.</u>	1.71	2.01	2.01
	ORF SEQ ID NO:	27406	29895					28666	29874	33348	34444	34897	36990	37708	25751	25809	26826	26981	26982	27367	27368	28489	29715	29716	31367	32665	32666	32789	_	_	35270	37029	37030
Exo	<u>"</u>	14693	17261		20914	L		16015	17241	20243	21300	21739	23719	24378	13111	13166	14147	14295	14295	14657	14657	15848	17086	17086	18453	19622	19622	25104	21787		22098	23754	23754
Probe	SEQ ID	1957	4526	12208	8220		1217	3253	4506	7574	8608	9050	11049	11788	307	370	1400	1549	1549	1920	1920	383	4347	4347	5658	6707	6707	7039	6606		9420	11084	11084

Page 422 of 536 Table 4 Single Exon Probes Expressed in Brain

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1	T		T		Γ	Γ				Γ		T	Γ	1	Γ	Γ	T	lwir ≪	T	T		F		-31	Li.	1	ŢŒ	Ì.	E	þG7
Top Hit Descriptor Homo sapiens heat shook transcription factor 2 binding protein (HSF2BP), mRNA	Homo sapiens mRNA for KIAA1005 protein, partial cds	Homo saplens glutathione S-transferase theta 2 (GSTT2) and glutathione S-transferase theta 1 (GSTT1) genes. complete cds	Homo sapiens chromosome 21 segment HS21C047	Homo saplens chromosome 21 segment HS21C047	Homo sapiens Testis-specific XK-related protein on Y (XKRY), mRNA	Homo sapiens Testis-specific XK-related protein on Y (XKRY), mRNA	xv78b11.x1 NCI_CGAP_Brn53 Homo sapiens cDNA clone IMAGE:2824605 3'	Homo sapiens chromosome 21 segment HS21C006	Homo saplens chromosome 21 segment HS21C049	EST02975 Fetal brain, Stratagene (cat#936206) Homo sapiens cDNA clone HFBCR32	Homo sapiens X-linked anhidroitic ectodermal dysplasia protein gene (EDA), exon 2 and flanking repeat regions	G.garilla DNA for ZNF80 gene homolog	. RC3-HT0625-040500-022-b09 HT0625 Homo sapiens cDNA	Homo sapiens DKFZP586M0122 protein (DKFZP586M0122), mRNA	Homo sapiens DKFZP586M0122 protein (DKFZP586M0122), mRNA	602072064F1 NCI_CGAP_Brn67 Homo sapiens cDNA clone IMAGE:4215039 5'	UI-H-BI1-afk-c-07-0-UI.s1 NCI_CGAP_Sub3 Homo sapiens cDNA clone IMAGE:2722164 3'	qf62f09x1 Soares_tests_NHT Homo sapiens cDNA clone IMAGE:1754633 3' similar to SW:CYT_COTJA P81061 CYSTATIN:	Homo saplens mRNA for KIAA1168 protein, partial cds	Rat mRNA for short type PB-cadherin, complete cds	H.sapiens mRNA for IFN-gamma (pKC-0)	Homo sapiens KIAA0957 protein (KIAA0957), mRNA	Homo saplens RGH2 gene, retrovirus-like element	Homo sapiens myotubularin-related protein 1a mRNA, partial cds	Homo sapiens follicle stimulating hormone receptor (FSHR) mRNA	Homo sapiens myelin transcription factor 1-like (MYT1-I) mRNA, complete cds	Homo sapiens small optic lobes (Drosophila) homolog (SOLH) mRNA	Homo sapiens small optic lobes (Drosophila) homolog (SOLH) mRNA	601863164F1 NIH_MGC_57 Homo sapiens cDNA clone IMAGE:4080999 5'	
Top Hit Database Source NT	LN.	Ę	Z	N	Ę	LN.	EST_HUMAN	TN	IN	EST_HUMAN	Į.	Ę	EST HUMAN	LN	ZI.	EST_HUMAN	EST HUMAN	EST HUMAN	<u>F</u>	N	TN	NT	TN	TN	IN	TN	LN	LN	EST_HUMAN	
Top Hit Acession No. 5901979 NT	1.0E-99 AB023222.1	1 0E-99 AF240786 1	AL163247.2	AL163247.2	11418230 NT	11418230 NT	AW275237.1	AL163206.2	AL163249.2	1.0E-100 T05087.1	1.0E-100 AE003528 1	1.0E-100 X89631.1	BE180609.1	7661685	7661685 NT	1.0E-100 BF530735.1	AW207555.1	1.0E-100 AI200857 1			X62468.1	11418976 NT		35735	4503792 NT	AF036943.1	5032104 NT	5032104 NT	BF244218.1	
Most Similar (Top) Hit BLAST E Value 1.0E-99						1.0E-100		1.0E-100 AL1									1.0E-100 AW	1.0E-100	1.0E-100	1.0E-100	1.0E-100 X6			1.0E-100 AF	1.0E-100	1.0E-100 AF	1.0E-100	1.0E-100	1.0E-100 BF2	
Expression Signal	2.77	8.68	0.95	1.53	1.54	1.54	0.69	1.24	0.83	3.06	1.28	7.19	1.33	3.22	3.22	3.14	1.14	1.81	1.41	1.39	1.33	2.36	5.5	1.52	2.14	1.03	2.68	2.66	1.62	
ORF SEQ ID NO: 37088			25443	25443	25526	25527		25618		25770			25915						27309			28155				29785	30362	30363	30637	
Exon SEQ ID NO: 23808	Ш	24525	L	12830	12894			12979	13113	13135	13213	13263		13758	13758	14163	14285	14289	l_	14966	15159	15417		16927	16952	17154	17751	15771	18015	
Probe SEQ ID NO:	11350	11984	-	2	99	99	85	165	309	334	427	477	496	866	866	1415	1538	1543	1856	2238	2439	2710	3018	4186	4211	4418	5031	5031	5207	

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	Top Hit Descriptor	x882701.x/ NCI_CGAP_CML1 Homo sapiens cDNA clone IMAGE-2573306.2	PROTEIN PHPS1-2 (HUMAN);	AU118182 HEMBA1 Homo sapiens cDNA clone HEMBA1003048 5	Homo sapiens NF-E2-related factor 3 gene, complete cds	Human mRNA for plasma Inter-alpha-trypsin Inhibitor heavy chain H/3)	Homo sapiens ER to nucleus signalling 1 (ERN1) mRNA	Homo sapiens ER to nucleus signalling 1 (ERN1) mRNA	Homo sapiens hect domain and RLD 2 (HERC2), mRNA	AU140214 PLACE2 Homo sapiens cDNA clone PLACE2000137 5'	AU 130800 PLACE1 Homo sapiens cDNA clone PLACE1005089 5'	y38c08.s1 Soares fetal liver spleen 1NFLS Homo saplens cDNA clone IMAGE:129134 3'	ae33b06.r1 Gessler Wilms tumor Homo sapiens cDNA clone IMAGE access referen	G487418 ACTIN FILAMENT-ASSOCIATED PROTEIN.	G487418 ACTIN FILAMENT-ASSOCIATED PROTEIN .	MR1-TN0046-060900-004-b05 TN0046 Homo series CDNA	MR1-TN0046-060900-004-b05 TN0046 Homo sanlars CDNA	Human mRNA for kidney epidermal growth factor (FGE) presuits	601647357F1 NIH_MGC_61 Homo sapiens cDNA clone IMAGE:2022222	Homo saplens chromosome 21 segment HS21C003	AU116951 HEMBA1 Homo sapiens cDNA clone HEMBA1000343 5	AU116951 HEMBA1 Homo sapiens cDNA clone HEMBA1000343 5'	riomo sapiens mRNA for KIAA1485 protein, partial cds พวิวิชี09.x1 NCi CGAP Pr28 Home sanians กากเกิด ประการเกิด	MER22 repetitive element :	PM0-BN0065-100300-001-c06 BN0065 Home servieur - DNA	AU127720 NT2RP2 Homo sapiens cDNA clone NT2RP2001948 st	Homo saplens mRNA for KIAA1626 protein, partial cds	Homo sapiens mRNA for KIAA1626 protein, partial cds	hh83c11.y1 NCI_CGAP_GU1 Homo sapiens cDNA clone IMAGE-pagage er	hh83c11.y1 NCI_CGAP_GU1 Homo sapiens cDNA clone IMAGE:2886386 5		one IMAGE:4156165 5'
	Top Hit Database Source			ESI HUMAN	Į.	Į.			. I+	EST HOMAN	NAMOL	HOMAN		ESI HOMAN			T_HUMAN		HUMAN		\neg	HOMAN	\top		HUMAN	HUMAN			HOMAN	7	EST HUMAN A	7
	Top Hit Acession No.	AW075089 4	T	T	T	00000	455/568 N	450/568 N 896/568	D/29867 NT	Ī	T	7382479	A 406944 4	T				T		I	T	T	Ī				1	Τ	T	T		1
Most Similar	(Top) Hit BLAST E Value	1.0E-100		_	_		1 OF 100	101-100		,		- 1	1.0F-100 A		1.0E-100 AA496841.1	1.0E-700 BF3/6478.1	1.0E-100 BI	4 OE 400 DE4000E	1.0E-100 Br	1 0E-100 AL 163203.2	1 0F-100 A	1.0E-100 AB040918 4	4 000	1.0E-100 AIS	1.0E-100 AW998611.1	1.0E-100 AD12//20.1	1.0E-100 AB048846 1	1 0F-100 AMERICA	1.0E-100 AW630487.1	1.0E-100 AV	1.0E-100 BF347548 4	
	Expression Signal	0.59	1.33	1.26	0.8	0.94	76.0	1.67	5.64	1.97	1.37	0.9	1.19		- 19	1 42	8 78	12.7	4 8	890	0.68	3.52	97.6	4 82	7 84	211	2.11	1.68	1.68	L	L	
	ORF SEQ ID NO:	30931	31323	31369	31461	31814	31815		32173	32224	32362	32622	32608		32557	32558	32565	34261		34746	34747	34986		33520		35316	35317	35598	35599	35749	36230	
LI LI	<u></u>		_ [L			19113	1	- 1	J	19587	19576	40570	19530	19530	19537	21123	21158	21603	21603	21820	22089	20404	22048	22136	22136	22394	22394	22554	23014	
Probe	SEQ ID	5421	5614	5660	5747	6071	6071	6343	6405	6467	9298	897	6742	6742	6786	6786	6793	8430	8466	8912	8912	9132	9210	9333	9386		9483	i I			10368	

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Table 4

WC	01/57275		 T	T	T	Т	T	T-	_	Т	 			_	Т	т-	T	Т	_	11-1	green or	<u> </u>	<u> </u>	1	pon,	P	CT	/U	S0	1/(06	67
l able 4 Single Exon Probes Expressed in Brain	Top Hit Descriptor	- Province - Community	Man Brings agencies retrovirus HERV-K, pol gene	IWRV-BNUU/V-Z/0300-008-h11 BN0070 Homo sapiens cDNA	nomo sapiens 14q32 Jagged2 gene, complete cds; and unknown gene	nomo sapiens 14432 Jagged2 gene, complete cds; and unknown gene	Hamo sapiens chromosome 21 segment HS21C047	Lower Court of the Control of the Co	Inomo sapiens goigin-like protein (GLP) gene, complete cds	zkasad3.r1 Soares, pregnant, uterus, NbHPU Homo saptens cDNA clone IMAGE:489964 5'	Homo sapiens gludathone S-transferase theta 2 (GSTT2) and glutathione S-transferase theta 1 (GSTT1) and glutathione S-transferase theta 1 (GSTT1)	7q88h03.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE: 3' similar to TR:Q21997 021997	Home in the latest the	Home control to the control of the c	Home caries of Cold (Cold and Cold and Cold and Cold), mRNA	Home control of Control (S. cerevisiae)-like 2 (SEC14L2), mRNA	notific septems SEC14 (S. cerevisiae)-like 2 (SEC14L2), mRNA	nome sapiens micha for KIAA0446 protein, partial cds	Home sations	Homo sapiens pescadilla (menospox 2 (VAX2), mRNA.	Homo sapiens phosphoribosy/glycinamide formy/transferase, phosphoribosy/divcinamide symhetese	prosphonosylaminolmidazole synthetase (GART) mRNA	Tronno sapiens of cardiac alpha-myosin heavy chain gene	02 1304 / 4FT NIH MGC 83 Homo sapiens cDNA clone IMAGE:4297291 6	Home control State Nr. L. I. GBC_S1 Home saplens cDNA clone IMAGE:1843336 3'	Horno septens butyrophilin, subfamily 2, member A1 (BTN2A1), mRNA	Homo septens butyophilin, subtamily 2, member A1 (BTN2A1), mRNA	Homo seriene VIAAASE	Homo sapiens Actions actions and the product (KIAA0569), mRNA	R.S. CTO281 464600 A.E. Los Caracterics (CPA1) mRNA	Homo carions A Vince (PDIXX)	H. sapiens EWS gene, excn 5
gle Exon Pro	Top Hit Database Source	ΗN	FOT LIMAN	NEW PLAN	E E		EST HIMAN	- NO.	EOT CIBANE	EST HUMAN	Į.	TOTAL POP	TN TN						Ŀ			- F	EST HIMAN	EST LIMAN	-Y.					H IMAN		
Sin	Top Hit Acession No.	1.0E-100 Y10391 1	1.0E-100 BF327292 1	111703	111703	83247.0		T	T	15605.1	10786.1	6549 1	11545732	11417974 NT	7110714 NT	7410744 N	7915.2	7410734	7110734 NT	7657454 NT	4503014 NIT	9	12/8/1	878 1	5921460	5921460 NT	7662183 NT	7662183 NT	4502996 NT	BE843070.1 EST	5729892	72993.1 NT
	Most Similar (Top) Hit BLAST E Value	1.0E-100	1.0E-100	1.0E-100 AF1	1.0E-100 AF1	1 0F-100	1.0E-100	1.0E-100	1.0E-100 AA1	1.0E-100 AA1	1.0E-100 AF2	1.0E-100 BF44	1.0E-100	1.0E-100	1.0E-101	1.0E-101	1.0E-101 ABOO	1.0E-101	1.0E-101	1.0E-101	1.0E-104	1.0E-101 Z2065	1.0E-101 BF68	1.0E-101 A1221	1.0E-101	1.0E-101	1.0E-101	1.0E-101	1.0E-101	1.0E-101 B		1.0E-101 X72993.1
-	Expression Signal	2.2	6.27	4.52	4.52	2.11	1.59	1.48	1.57	1.57	6.67	1.51	3.67	4.62	1.75	1.75	1.62	5.88	5.88	1.99	7	1.22	14.26	1.63	1.46	1.46	1.52	1.52	1.62	1.79	1.71	2.8
	ORF SEQ ID NO:			37319	37320	25443			37668	37669	37806		31071	30968	25539	25540	26087	26111	26112	26185	26273	26335	26396	26449	27012	27013	27182	27183	27389	27510	27808	28076
	Exon SEQ ID NO:	LI	23349	24017	24017	12830	24230	24276	24340	24340	24471	25278	24668	25044	12802	12302	13447	13463	13463	13526	13603	13671	13729	13790	14324	14324	14482	14482	14673	14783	15592	15332
	Probe SEQ ID NO:	10458	10658	11326	11326	11356	11633	1168	11749	11749	11907	12031	12200	12792	75	13	671	88	888	754	833	904	964	1030	1577	1577	1740	1	1938	┙	[2820

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W	0 01/57275		7	T	- T	_	_	_	_		1	1	_	_			1	_	_	_		<u>.</u>	· Luca		, Z .	******* **	PC	T/U	S	1/	90,6	67	! lujt
Table 4	Top Hit Descriptor	Linear	nono sapiens KIBIIR gene (partial), exon 12	Homo sapiens RIBIIR gene (partial), exon 12	Homo sapiens genomic downstream Rhesus box	Homo sapiens gamma-glutamyftransferase 1 (GGT1) mRNA	001438531F1 NIH_MGC_66 Homo sapiens cDNA clone IMAGE:3862086 5'	ES 137 023 MAGE resequences, MAGI Homo sapiens cDNA	Homo sapiens RIBIIR gene (partial), exon 12	Indino sapiens KilliR gene (partial), exon 12	nomo sapiens ASHZL gene, complete cds, similar to Drosophila ash2 gene	nomo sapiens butyrophilin, subfamily 2, member A1 (BTN2A1), mRNA	Forestable Subfrobillin, subfamily 2, member A1 (BTN2A1), mRNA	ES 1377212 MAGE resequences, MAGI Homo sapiens cDNA	Horno sapiens cytoplasmic linker 2 (CYLN2), mRNA	Homo sapiens cytoplasmic linker 2 (CYLN2), mRNA	Homo sapiens carbonic anhydrase VII (CA7), mRNA	Homo sapiens hypothetical protein FLJ22087 (FLJ22087) mRNA	Homo sapiens Kruppel-type zinc finger protein (PEG3) mRNA, alternative splice form 4. partial cds	Homo sapiens Kruppel-type zinc finger protein (PEG3) mRNA, alternative splice form 4 partial cde	wy55f12.x1 NCI_CGAP_Gas4 Homo sapiens cDNA clone IMAGE:2533487 3'	OUT 10921 /FT NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3349901 5'	RC1-B 10313-220700-018-f12 BT0313 Homo sapiens cDNA	601121621F1 NIH_MGC_20 Homo septens cDNA clone IMAGE:3345869 5/	601764686F1 NIH MGC 53 Home capiers cDNA clone IMAGE:3345869 5'	hh74g10.y1 NCI_CGAP_GU1 Homo septens cDNA clone IMAGE:296837 5'	IN LENFERON-GAMMA RECEPTOR ALPHA CHAIN PRECURSOR (HUMAN); hh74g10.71 NG1 CGAP GU1 Homo sapiens cDNA clone IMAGE:2968578 5' similar to qb:J03143	2/29g08.r1 Source, pregnant, uterus, NbHPU Homo sapiens cDNA clone MAGE. / 24000 cl. struit.	PIR:S54640 S54640 YD9335.03c protein - yeast;	Homo sapiens mRNA for KIAA1351 protein, parttal cds	Homo sapiens mRNA for KIAA1351 protein, partial cds	Human mKNA for pancreatic gamma-glutamytransferase	Human mKNA for pancreatic gamma-glutam/transferase
die Exon Pr	Top Hit Database Source	ΙŁΝ		1	Z	N	EST HUMAN	ES DOMAN	Z	E L	LN		I⊦	HOMAN	Ž.		~ Z	Z	E .	- N	EST HUMAN	EST CITATION	FOT LIMAN	EST HUMAN	EST HUMAN		T		HOMAN		N.		
Sign	Top Hit Acession No.	AJ237744 1	A 12377444	A 1252342 4	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	02522	1.0E-101 AW965556 1	1.0E-101 A.1237744 1	1237744 1	B022785 4	5021460 NT	5021460 NT	9651	3	N 2101211	142/512 NT	11430/34 N	300	T	T	Ţ	T		Γ					T		-]
	Most Similar (Top) Hit BLAST E Value	1.0E-101 AJ	1 0F-101 A	1.0E-101 A	1 0F-104	1 0F-101 BE	1.0E-101	1.0E-101	1.0E-101 A.	1.0E-101 AB	1.0E-101	1.0E-101	1.0E-101 AW	1 0F-104	101	105-101	100-101	101-101	1.0E-101 AF208970.1	1 0E-101 AWOOG476.4	1.0E-101 B	1.0E-101 RE330750 1	1.0E-101 BF275824 1	1.0E-101 BE275821,1	1.0E-101 BF029174.1	1.0E-101 AWG30070 1	1.0E-101 AW630070 1	1 OF 104	1.0E-101 ANGOSTATO 4	4 0E-101 AB037777 4	1.0E-101 X60069 1	1.0E-101 X60069 1	
	Expression Signal	1.09	1.09	13.73	1.98	2.27	1.93	1.49	1.49	3.69	1.16	1.16	1.22	3.68	3.68	1 27	5	8 67	557	7.48	1.79	7.43	28.0	0.84	2.88	0.67	0.67	100	0 83	0 83	17.13	17.13	
İ	ORF SEQ ID NO:	28192	28193		28613		28790	28192		29245	30304	30305	30669	31651	31652	32372		32977	32978	33136		33398	33631	33632	33772	34050	34051	34741	35080	35081	33553	33554	
	Exon SEQ (D NO:	15452	15452	15721	15961	15997	16134		15452	16607	17697	17697	18041	18698	18698	19358	19859	19905	19905	20056	20147	20289	20508	20508	20649	20915	20915	21599	21908	21908	20432	20432	
	Probe SEQ ID NO:	2747	2747	2955	3198	3235	3375	3395	3395	3857	4974	4974	5235	5913	5913	6595	7173	7220	7220	7376	7474	7623	7813	7813	1934	8221	8221	8068	9229	ı	9362		

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			_		_	_		_		_						_		_	_	_		_	_	_					_	_		_
	Top Hit Descriptor	Homo sapiens gamma-glutamyltransferase 1 (GGT1), transcript variant 3, mRNA	601472808T1 NIH_MGC_68 Homo sapiens cDNA clone IMAGE:3875953 3	601472808T1 NIH_MGC_68 Homo sapiens cDNA clone IMAGE:3875953 3'	Homo sapiens potassium channel, subfamily K, member 10 (KCNK10), mRNA	Homo sapiens Janus kinase 2 (a protein tyrosine kinase) (JAK2), mRNA	601680825F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:3950887 5'	601680825F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:3950887 5'	branched-chain alpha-keto acid dehydrogenase complex E1 alpha subunit [human, Genomic, 195 nt,	Home sanlens mRNA for KIAA0819 protein, partial cds	tm58c01.x1 NCI_CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2162304 3' similar to gb:M13361	HEPARIN-BINDING GROWTH FACTOR PRECURSOR 1 (HUMAN);	m58c01.x1 NCI_CGAP_Brn25 Homo sapiens cDNA clone IMAGE:2162304 3' similar to gb:M13361 HEPARIN-BINDING GROWTH FACTOR PRECURSOR 1 (HUMAN);	RC-BT163-290499-085 BT163 Homo sapiens cDNA	RC-BT163-290499-085 BT163 Homo sapiens cDNA	QV1-DT0068-240200-085-a01 DT0068 Homo sapiens cDNA	Homo sapiens phosphatidylinositol 4-kinase 230 (pi4K230) mRNA, complete cds	Homo sapiens chromosome 21 segment HS21C103	Homo sapiens down-regulated in adenoma (DRA) mRNA	Human endogenous retroviral DNA (4-1), complete retroviral segment	Homo sapiens solute carrier family 2 (facilitated glucose transporter), member 9 (SLC2A9), mKNA	Homo sapiens solute carrier family 2 (facilitated glucose transporter), member 9 (SLC2A9), mKNA	Homo sapiens reelin (RELN) mRNA	601286982F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3629901 5	am60c10.x1 Johnston frontal cortex Homo sapiens cDNA clone IMAGE:1539954 3' similar to SW:GG95_HUMAN Q08379 GOLGIN-95. ;	am60c10.x1 Johnston frontal cortex Homo sapiens cDNA clone IMAGE:1539954 3' similar to	SW:GG95_HUMAN Q08379 GOLGIN-95;	Homo sapians KIAA0187 gene product (KIAA0187), mRNA	AU141005 PLACE4 Homo sapiens cDNA clone PLACE4000650 5	AU141005 PLACE4 Homo sapiens cDNA clone PLACE4000650 5	Homo saplens chromosome 21 segment HS21C007	601107843F1 NIH_MGC_16 Homo sapiens cUNA clone IMAGE:3343882 5
s	Top Hit Database Source	NT	EST_HUMAN	EST_HUMAN	LN LN	Ę	EST_HUMAN	EST_HUMAN	Ŀ	Z		EST_HUMAN	EST HUMAN	EST_HUMAN	EST HUMAN	EST_HUMAN	NT	NT	TN	LΝ	L	NT	NT	EST_HUMAN	EST_HUMAN		EST_HUMAN	Z	EST HUMAN	EST_HUMAN	NT	EST HUMAN
	Top Hit Acession No.	9845492 NT	BE619667.1	BE619667.1	10863960 NT	11429127 NT	BE973648.1	1.0E-101 BE973648.1	,	1.0E-101 538327.1	10050050	1.0E-101 AIS90078.1	1.0E-101 AI590078.1	1.0E-101 AI908168.1	1.0E-101 Al908168.1	1.0E-101 AW939051.1	1.0E-102 AF012872.1	1.0E-102 AL163303.2	4557534 NT	M10976.1	11437146 NT	11437146 NT	4826977 NT	1.0E-102 BE 408447.1	1.0E-102 A1124669.1		1.0E-102 AI124669.1	7661979 NT	1.0E-102 AU141005.1	1.0E-102 AU141005.1	1.0E-102 AL163207.2	BE251310.1
	Most Similar (Top) Hit BLAST E Value	1.0E-101	1.0E-101	1.0E-101	1.0E-101	1.0E-101		1.0E-101		4 OE 404 AB02062	101-101	1.0E-101	1.0E-101	1.0E-101	1.0E-101	1.0E-101	1.0E-102		l	1.0E-102 M10976.1	1.0E-102	1.0E-102			1.0E-102			1.0E-102				
	Expression Signal	17.01	6.24	6.24	0.72	1.49	0.94	0.94		1.98	7.11	2.06	2.06	1.31	1.31	13.68	2	4.35	1.59	2.8	1.67	1.67	66.0	119.7	1.88		1.88	1.32	4.76	4.76	1.57	2.17
	ORF SEQ ID NO:	35123	35506		35650					36/13		37307					25485	25767				26661	26678		27769		27770	Ĺ	28538	28539		5 29748
	Exon SEQ ID NO:	21950	22309	上	L	١.	1	L		23471		24004	1		L	L		L	L			13994	14010	14145	15032		15032	15827	15895	15895		17115
	Probe SEQ ID NO:	9375	9657	9657	9794	10308	10447	10447		10788	3	11398	11398	11763	11763	12461	38	332	758	1095	1245	1245	1261	1398	2307		2307	3061	3130	3130	4207	4378

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																			_	_	<u>></u>	4-	-	_	_		_	<u> </u>	-	_		~~~~
Top HIt Descriptor	Homo sapiens protein phosphatase-1 regulatory subunit 7 (PPP1R7) gene, exon 7	Homo sapiens HSC34 mKNA for neat stroke cognate protein 34, complete cos	Homo sapiens histone deacetylase 7 (HDAC7), mRNA	Homo sapiens histone deacetylase 7 (HDAC7), mRNA	Homo sapiens hect domain and RLD 2 (HERC2), mRNA	ar82/09.x1 Barstead colon HPLRB7 Homo sapiens cLINA clone IMAGE:z151785 5 Similar to Tr. 21515/ Q13137 NDP52.;	601561505F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3831241 5	601277215F1 NIH_MGC_20 Home sapiens cDNA clone IMAGE:3618243 5	Homo sapiens mRNA for Centaurin-alpha2 protein	AV710738 Cu Homo sapiens cUNA clone CuAAKLUG 3	QV3-NT0025-210600-236-h08 NT0025 Homo sapiens cUNA	601501107F1 NIH_MGC_70 Home saplens cDNA clone IMAGE:3903143 3	AV694817 GKC Homo sapiens cDNA clone GKCEEE115	AV694817 GKC Homo saplens cONA clone GKCEEE11 5	Homo sapiens mRNA for KIAA0454 protein, partial cds	601283770F1 NIH_MGC_44 Home sapiens CUNA cione invalce: 3003550 3	601283770F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3605536 5	wie3b06.x1 NCI_CGAP_Kid12 Homo sapiens cDNA clone IMAGE:239/971 3' similar to contains MEK4.t1	MER4 MER4 repetitive element :	AV755842 BM Homo sapiens curva cione bivir Autrico 1	yd13d07 r1 Soares fetal liver spiece i livir LS figure spieces curva cione livia cura de la company	yd13d0/.r1 Soares reta liver spices i inr Lo nonio saprens cono cono montante de la conocimio	AU124629 N I ZKWI4 FORTIO SERVETS CLIVE CONTRACTOR & BROKEN FORTION	Homo sapiens phospholipid scrantinese I gette, exvi I and o realizing region.	RC-B1074-250499-014 B1074 Homo sapiens culviA	RC-BT074-260499-014 BT074 Homo sapiens cDINA	on57h04.s1 Soares_NFL_T_GBC_S1 Homo sapiens cUNA clone IMA GE: 1500525 3 Similar to	SW.CAV2 HUMAN P51636 CAVEOLIN-2. [1];	Homo saplens UDP glycosytransferase Z tamily, polybeptue B 11 (DC12211) Innven	Homo sapiens UDP glycosyltransferase 2 family, polypeptide B11 (UG (25 11) mKNA	8k49h10.s1 Soares_testis_NHT Hamo sapiens curvA digne invision: 1405047.5	KOO-E 100/2-13000-01-101 E 100/2 Train agress acres
Top Hit Database Source						EST_HUMAN		EST_HUMAN	7	٦	HUMAN	HUMAN	HUMAN	EST_HUMAN	NT	EST_HUMAN	EST_HUMAN		EST HUMAN	EST HUMAN	EST_HUMAN		EST HUMAN	LN.	EST_HUMAN	EST HUMAN		EST_HUMAN	INT	ZNT	EST HUMAN	EST HUMAN
Top Hit Acession No.	П	AB034951.1	7705398 NT	7705398 NT	11433046 NT	AI459825.1	BE729323.1	BE386106.1	AJ238994.1	AV710738.1	BE763051.1	BE910555.1	AV694817.1	1.0E-102 AV694817.1	AB007923.1	1.0E-102 BE388063.1	1.0E-102 BE388063.1		2 AI762859.1	1.0E-102 AV755842.1	1.0E-102 T70393.1	1.0E-102 T70393.1	1.0E-102 AU124629.1	1.0E-102 AF153715.1	1.0E-102 AI905037.1	1.0E-102 Al905037.1		1.0E-102 AA970786.1	4507822 NT	4507822 NT	1.0E-102 AA868675.1	BF359243.1
Most Similar (Top) Hit BLAST E Value		1.0E-102	1.0E-102	1.0E-102	1.0E-102	1.0E-102		1.0E-102	1.0E-102	1.0E-102	1.0E-102	1.0E-102	1.0E-102	1.0E-102	1.0E-102	1.0E-102	1.0E-102			1.0E-102					1.0E-102	1.0E-102				_		┙
Expression Signal	1.87	9.17	2.84	2.84	0.81	2.93	0.75	1.04	8.23	2.48	3.91	1.32	2.21	2.21	1.19	0.63	0.63		0.52	0.81		2.28	3.79	69'0	3.67	3.67			2.56			3.01
ORF SEQ ID NO:	30753		31414		31420	31954			33014	33288					L	L	L		35049	35017		35070	35151		36228		L	36295		L		7 37287
Exon SEQ ID NO:	18092	18458	1	١.	1_	18978	1	١.	1		L	L	L	L	1	1_	1	1_	21881		_	L	21978	22929	L	1_	1	3 23074	L	L	1_	Ш
Probe SEQ ID NO:	5287	5963	5698	5698	5704	8200	7036	7065	7265	7524	8122	8201	8392	8392	8501	8829	8829		9150	9181	9221	9221	9311	10281	10367	10367		10428	11008	11008	11290	11380

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ab10d12.s1 Stratagene lung (#937210) Homo saplens cDNA clone IMAGE:840407 3' similar to contains Human chromosome 16 creatine transporter (SLC6A8) and (CDM) paralogous genes, complete cds Homo sapiens promyelocytic leukernia zinc finger protein (PLZF) gene, complete cds 602041882F1 NCI_CGAP_Brin67 Homo sapiens cDNA clone IMAGE:4179429 6' 602041882F1 NCI_CGAP_Brin67 Homo sapiens cDNA clone IMAGE:4179429 5' 601573113F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3334316 5' UI-H-BWO-ajt-h-11-0-UI.s1 NCI_CGAP_Sub6 Homo sapiens cDNA clone IMAGE:2733165 3' Homo sapiens mRNA for KIAA1459 protein, partial cds Homo sepiens neuropilin 1 (NRP1), mRNA seq340 b4HB3MA-Cot109+10-Blo Homo sepiens cDNA clone b4HB3MA-Cot109+10-Bio-7 3' 602186023F1 NIH_MGC_45 Homo sepiens cDNA clone IMAGE:4310573 5' Homo sapiens bone morphogenetic protein 8 (osteogenic protein 2) (BMP8) mRNA Homo sapiens bone morphogenetic protein 8 (osteogenic protein 2) (BMP8) mRNA AU134991 PLACE1 Homo sapiens cDNA clone PLACE1000965 5' Homo sepiens nucleolar protein (KKEID repeat) (NOP56) mRNA
Homo sepiens mRNA for pregnancy-associated plasma protein-E (PAPPE gene)
601485388F1 NIH MGC_69 Homo sapiens cDNA clone IMAGE:3887876 5'
Homo sapiens phosphatidylinositol 4 kinase 230 (pi4K230) mRNA, complete cds
Homo sapiens sing GDS-ASSOCIATED PROTEIN (SMAP), mRNA xk07c12x1 NCI_CGAP_Co20 Homo sapiens cDNA clone IMAGE:2666038 3 601500405F1 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3902305 5' 601500405F1 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3902305 5' a<u>l26e03 s1 Soares_testis_NHT Homo sapiens cDNA clone 1391452 3</u> Homo sapiens glycine receptor alpha 2 subunit (GLRA2) gene, exon 4 EST366636 MAGE resequences, MAGC Homo saplens cDNA EST366636 MAGE resequences, MAGC Homo sapiens cDNA Top Hit Descriptor Homo sapiens mRNA for KIAA0235 protein, partial cds Homo sapiens septin 2 (SEP2) mRNA, partial cds Homo sapiens KIAA0440 protein (KIAA0440), mRNA Homo sapiens KIAA0440 protein (KIAA0440), mRNA Homo sapiens chromosome 21 segment HS21C080 Macaca mulatta cyclophilin A mRNA, complete ods element LTR10 repetitive element EST_HUMAN EST_HUMAN EST_HUMAN EST_HUMAN EST HUMAN **EST HUMAN** EST HUMAN EST_HUMAN EST_HUMAN EST_HUMAN HUMAN **EST HUMAN** EST HUMAN HUMAN Top Hit Database Source ż ż 11435053 4502428 4502428 11435053 11430876 5453793 7657592 Top Hit Acession 1.0E-103 AW954566.1 1.0E-103 AA781442.1 1.0E-103 AF053490.1 1.0E-103 AW954566.1 I.0E-103 AW 298245.1 1.0E-102 AW300862.1 1.0E-103 BE908158.1 1.0E-103 AU134991.1 1.0E-103 BF569527.1 1.0E-103 AF179995.1 1.0E-103 AF012872.1 1.0E-103 AB040892.1 1.0E-103 AA485663.1 BE877541.1 BF528379.1 BF529379.1 AJ278348.1 BE744722. BE908158 è .0E-102 AL163280 D87078.2 U41302.1 1.0E-103 1.0E-103 103 1.0E-103 1.0E-103 1.0E-103 1.0E-103 1.0E-102 1.0E-103 1.0E-103 1,0E-103 1.0E-103 1.0E-103 (Top) Hit BLAST E Most Similar 1.0E-1 Value 1.33 0.96 2.62 0.89 ध 3.47 8 0.75 10.23 1.44 8 4.69 Expression 32132 32133 32304 31567 31567 32265 27026 27354 27420 28789 29165 31924 25656 26389 26643 37631 27421 ORF SEQ 25561 ÖNQ 16526 18632 16133 16189 16562 18951 18951 19137 19301 14644 14704 15170 15316 15830 16490 16733 14704 SEQ ID 12924 1397 Exer ÿ 1301 5844 5852 6174 6174 6368 6368 6498 6535 3774 3985 3433 3810 1221 2303 2603 3064 3374 11911 12450 86 203 960 1968 1968 2452 2603 SEQ ID 1591 3737 6 ë

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PCT/US01/00667

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	Top Hit Descriptor	tm58b05.x1 NCI_CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2162289 3' similar to TR:Q13769 Q13769 ANONYMOUS.;	tm58b05.x1 NCI_CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2162289 3' similar to TR:Q13769 Q13769 ANONYMOUS.;	Homo sapiens dystrophin (muscular dystrophy, Duchenne and Becker types), includes DXS142, DXS164, DXS206, DXS230, DXS239, DXS239, DXS289, DXS270, DXS272 (DMD), transcript variant Dp427m, mRNA	Homo sapiens dystrophin (muscular dystrophy, Duchenne and Becker types), includes DXS142, DXS164, DXS206, DXS230, DXS239, DXS289, DXS289, DXS270, DXS272 (DMD), transcript variant Dp427m,), mRNA	and LZTFL1 gene	ens cDNA	of the IMAGE:2858343 5 colone IMAGE:2162289 3' similar to TR:Q13769	clone IMAGE:2162289 3' similar to TR:Q13769		nilar to None	2000374 5	sapiens cDNA clone IMAGE:3525964 3' similar to	HOSPHATASE D1;	ng)(TRIO), mRNA	ing) (1710), mKNA ine IMAGE:8001623' similar to gb:L02426 26S	llar to				bera binding protein (LTBP-2)
Single Exon Probes Expressed in Brain		tm58b05.x1 NCI_CGAP_B Q13769 ANONYMOUS.;	tm58b05.x1 NCI_CGAP_Bm2i Q13769 ANONYMOUS.;	Homo sapiens dystrophin (muscul DXS208, DXS230, DXS239, DXS mRNA	Homo sapiens dystrophin (muscular of DXS206, DXS230, DXS239, DXS239, DXS288	Homo ceniene siboomia president	Homo sapiens KIA A0864 2000 (LS-like (RPL3L), mRNA	EST377849 MAGE 200011 gene (partial), XI3 gene and LZTFL1 gene	601571537F1 NIH MGC 55 Home sarians cDNA clara 144 CF 2000 L 2	tm88b05.x1 NCI_CGAP_Bm25 Home septens cDNA clone IMAGE:2162289 3' similar to TR:Q13769 Q13789 ANONYMOUS:	tm8Bb05.x1 NCI_CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2162289 3' similar to TR:Q13769	EST27193 Himm Brain Home contact Character	AU140344 PI ACE? Homo serions ONIA II A SECRETARIONE	AU140344 PLACE2 Homo sabiens CDNA clone PLACE2000374 6	7160e03.x1 Soares_NSF_F8_9W_OT_PA_PS The Special Control of the Special Specia	Homo saplens triple functional do not Deport	Homo sapiens triple functional domain (PTPRF Interacting) (TRIO), mRNA	nd13c02.s.1 NCI_CGAP_ONTHOmosquiens cDNA clone INAGE:800162.3' similar to gb:L02426 26S PROTEASE SUBINIT 4 (HUMAN).	ae84d12 s1 Stratagene schizo brain S11 Homo sapiens cDNA clone IMAGE:970871 3' similar to	OV2-NN0045-230800-322-623-NN164-1-TRANSPORTING ATPASE BETA-1 (HUMAN);	3/2-NN0045-220800 222 503 NN0045 Homo sapier	H. sepiens mRNA for latent transforming 2.44.	EST375749 MAGE resequences, MAGH Homo sapiens, cDNA
igle Exon Pro	Top Hit Database Source	EST_HUMAN	EST_HUMAN	L	E	-	L	EST HUMAN	EST HUMAN	EST_HUMAN	HST HIMAN	EST HUMAN	EST HUMAN	Т				EST_HUMAN	NAMI IL	Т	Т	Т	T_HUMAN
	Top Hit Acession No.	03 AI590071.1	03 AI590071.1	5032282 NT	5032282 TN	11431100 NT	1.0E-103 AJ289880.1			03 AI590071.1	1.0E-103 AI590071.1		Τ	1.0E-103 AU140344.1	1.0E-103 BF109244.1	15921	6005921 NT	1.0E-103 AA581086.1		Γ	Τ	Τ	6.1
Most Similar	(Top) Hit BLAST E Value	1.0E-103	1.0E-103	1.0E-103	1.0E-103	1.0E-103	1.0E-103	1.0E-103	1.0E-103	1.0E-103	1.0E-103	1.0E-103 T31080.1	1.0E-103 /	1.0E-103 /	1.0E-103	1.0E-103	1.0E-103	1.0E-103	1.0E-103 AA774980 1	1.0E-103 BE935842.1	1.0E-103 BE935842.1	1.0E-103 Z37976.1	1.0E-103 A
	Expression Signal	1.48	1.48	1.53	1.53	1.27	0.99	1.63	6.93	4.21	4.21	0.77	2.22	2.22	1.1	2.86	2.86	1.16	5.04	0.58	0.56	1.44	1.89
	ORF SEQ ID NO:	32396	32397	30579	30580	30544	32716	32883	32990	33446	33447	34019	34354	34355	34439	34845	34846	34891	34941	34995	34996	35811	35859
Const	0)	19380	19380	17916			ı	_	19918	20335	. 1	- 1	- 1	21211		21895	21695	21736	21777	21832	21832	22606	22647
Probe	SEQ ID NO:	6618	6618	6747	6747	6872	6935	7127	7233	7871	7671	8187	8519	8519	8604	9002	9006	9046	9088	9162	9162	9958	16666

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Expn NO: CRF SEQ ID NO: Expression Signal Most Similar (Top) Hit Signal Most Similar (Top) Hit Albert Top Hit Acession (Top) Hit No: Top Hit Acession Source	W	O 01/57275		- 1 -		_	· ·	_	_										_ 4	·,••	_	,		8	P	C]	[/ [JŞ(01/	000	567
Exon NO: CRF SEQ Expression Signal Most Similar Top Hit Acession Value Most Similar Top Hit Acession Source CTOP Hit Acession Source <th< td=""><td>Table 4</td><td></td><td>au51g04.y1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2518326 5' similar to TR:O15046 015046 KIAAกลงล</td><td>olożdoB.y5 NCI_CGAP_Lus Homo sapiens cDNA clone IMAGE:1522283 5' similar to TR:Q62084 Q62084 PHOSDHOLIPASE O NIECKI I OCIONA SAPIENS</td><td>Home sarions AV ***********************************</td><td>Homo saplens AXI receptor tyrosine kinase (AXI.), mRNA</td><td>Homo sapiens NOD1 protein (NOD1) gene, exons 1.2 and 3</td><td>Homo sapiens NOD1 protein (NOD1) gene, exons 1, 2, and 3</td><td>Homo saplens mRNA for partial OCT/plexin-A2 protein</td><td>Homo sapiens mRNA for partial OCT/plextn-A2 protein</td><td>AU136283 PLACE1 Homo sepiens cDNA clone PLACE1003923 5</td><td>Homo saplens polycystic kidney disease (PKD1) gene, exons 27-30 7e68a10.x1 Soares_NSF_F8_9W_OT_PA_P_S1 Homo saplens cDNA clone IMACE: 3287840.91.21.21.21</td><td>contains MER29 t3 MER29 repetitive element;</td><td>Homo saptens hypothetical protein FLJ20454 (FLJ20454), mRNA</td><td>Homo sapiens gene for AF-6, complete cds</td><td>DKFZp564H1072_r1 564 (synonym: hfbr2) Homo sapiens cDNA clone DKFZp564H1n72_r</td><td>DKFZp564H1072_r1 564 (synonym: htbr2) Homo sapiens cDNA clone DKFZp564H1072 s'</td><td>Horino sapiens bone morphogenetic protein 8 (osteogenic protein 2) (BMP8) mRNA 2022c06 s1 Stratagene colon (#937204) Horino sapiens cDNA clinne IMA CE: sarzona 21 similares</td><td>35.214116_rna1 CD59 GLYCOPROTEIN PRECURSOR (HUMAN);</td><td>SVI 577460F1 NIH_MGC_9 Homo saplens cDNA clone IMAGE:3926438 5</td><td>ACT-C10249-110900-214-f12 CT0249 Homo sapiens cDNA</td><td>ACT-C10249-110900-214-f12 CT0249 Homo saplens cDNA</td><td>Tornio sapiens ARP2 (actin-related protein 2, yeast) homolog (ACTR2), mRNA</td><td>nomo sapiens KIAA0440 protein (KIAA0440), mRNA</td><td></td><td>plete cds</td><td></td><td></td><td></td><td>44.1</td><td>11 40 40 40 40 40 40 40 40 40 40 40 40 40</td></th<>	Table 4		au51g04.y1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2518326 5' similar to TR:O15046 015046 KIAAกลงล	olożdoB.y5 NCI_CGAP_Lus Homo sapiens cDNA clone IMAGE:1522283 5' similar to TR:Q62084 Q62084 PHOSDHOLIPASE O NIECKI I OCIONA SAPIENS	Home sarions AV ***********************************	Homo saplens AXI receptor tyrosine kinase (AXI.), mRNA	Homo sapiens NOD1 protein (NOD1) gene, exons 1.2 and 3	Homo sapiens NOD1 protein (NOD1) gene, exons 1, 2, and 3	Homo saplens mRNA for partial OCT/plexin-A2 protein	Homo sapiens mRNA for partial OCT/plextn-A2 protein	AU136283 PLACE1 Homo sepiens cDNA clone PLACE1003923 5	Homo saplens polycystic kidney disease (PKD1) gene, exons 27-30 7e68a10.x1 Soares_NSF_F8_9W_OT_PA_P_S1 Homo saplens cDNA clone IMACE: 3287840.91.21.21.21	contains MER29 t3 MER29 repetitive element;	Homo saptens hypothetical protein FLJ20454 (FLJ20454), mRNA	Homo sapiens gene for AF-6, complete cds	DKFZp564H1072_r1 564 (synonym: hfbr2) Homo sapiens cDNA clone DKFZp564H1n72_r	DKFZp564H1072_r1 564 (synonym: htbr2) Homo sapiens cDNA clone DKFZp564H1072 s'	Horino sapiens bone morphogenetic protein 8 (osteogenic protein 2) (BMP8) mRNA 2022c06 s1 Stratagene colon (#937204) Horino sapiens cDNA clinne IMA CE: sarzona 21 similares	35.214116_rna1 CD59 GLYCOPROTEIN PRECURSOR (HUMAN);	SVI 577460F1 NIH_MGC_9 Homo saplens cDNA clone IMAGE:3926438 5	ACT-C10249-110900-214-f12 CT0249 Homo sapiens cDNA	ACT-C10249-110900-214-f12 CT0249 Homo saplens cDNA	Tornio sapiens ARP2 (actin-related protein 2, yeast) homolog (ACTR2), mRNA	nomo sapiens KIAA0440 protein (KIAA0440), mRNA		plete cds				44.1	11 40 40 40 40 40 40 40 40 40 40 40 40 40
Exon NO: ORF SEQ ID NO: Expression Signal (Top) Hit Palue Top Hit Acess No. 22786 35988 9.2 1.0E-103 AI792759.1 23326 36563 3.56 1.0E-103 AI792759.1 23424 36668 2.04 1.0E-103 AI792759.1 23424 36678 2.04 1.0E-103 AI749773.1 23424 36678 2.04 1.0E-103 AF149773.1 23424 36678 2.04 1.0E-103 AF149773.1 23476 36717 1.3 1.0E-103 AF149773.1 23478 36717 1.3 1.0E-103 AF149773.1 24037 2.22 1.0E-103 AF149773.1 24404 36718 2.21 1.0E-103 AF149773.1 24404 36717 1.3 1.0E-103 AF14611.1 24404 37421 1.0E-103 AB0113891.1 24309 2.667 3.73 1.0E-104 AB132875.1 14918 2.765 2.57	ole Even De	Top Hit Database Source	EST_HUMAN	EST HIMAN	LN	N.	ΝŢ	ĻΖ	LN!	- Z	ES HUMAN		-1.		-	HOMAN	HOMAN		S HOMAN	HOMAN	Т	NAMOL					1445	HUMAN			
Expn NO: ORF SEQ ID NO: Expression Signal MM 22786 35998 9.2 23326 3668 2.04 23424 36668 2.04 23424 36678 2.04 23424 36678 2.04 23476 36777 1.3 23478 36717 1.3 23479 36717 1.3 23476 36717 1.3 24037 37340 2.8 24037 37340 2.8 24037 37340 2.8 24037 37340 2.8 24037 37340 2.8 24038 37340 2.8 24039 37340 2.8 24020 37091 2.83 13039 2.6577 3.73 14918 2.7829 1.38 15091 2.7829 1.38 15091 2.7830 1.38 15224 2.7966 1.11 <t< td=""><td><i>י</i>לַ</td><td>Top Hit Acession</td><td>AI878956.1</td><td></td><td></td><td>11424061</td><td>\F149773.1</td><td>NF149773.1</td><td>(87831.2</td><td></td><td>840.4</td><td>24644.4</td><td>10000</td><td>200</td><td>1</td><td>1</td><td>2400</td><td>20025</td><td>14679.1</td><td>4224.4</td><td>4224 4</td><td>14570</td><td>76621251</td><td>76821251</td><td>34671.1</td><td></td><td>T</td><td>T</td><td>T</td><td>T</td><td>П</td></t<>	<i>י</i> לַ	Top Hit Acession	AI878956.1			11424061	\F149773.1	NF149773.1	(87831.2		840.4	24644.4	10000	200	1	1	2400	20025	14679.1	4224.4	4224 4	14570	76621251	76821251	34671.1		T	T	T	T	П
Expn NO: ORF SEQ ID NO: Expression Signal 22786 35998 23326 3598 23424 36669 2 23424 36677 2 23424 36677 2 23424 36677 2 23476 36717 2 23476 36717 2 23476 36717 2 24037 37340 2 24494 3678 2 24037 37340 2 24494 3677 2 24494 3677 2 24494 37340 2 24494 37340 2 24494 37340 2 13039 25677 3 13039 25677 3 14918 27829 1 15091 27829 1 15091 27829 1 1524 27896 1 1524		Most Similar (Top) Hit BLAST E	1.0E-103	1.0E-103	1.0E-103	1.0E-103	1.0E-103 /	1.05-103	1.01-103	10F-103	1 0E-103	1 05-103	1.0F-103	1 0E-103 A	1 OF-104 A	1 OF-104 A	1 0F-104	1 05 404	1 0F-104 B	1 0F-104 B	1.0E-104 Bit	1.0E-104	1.0E-104	1.0E-104	1.0E-104 M	1.0E-104 Y1	1.0E-104 AA	1.0E-104 AF	1.0E-104 AP	1.0E-104 AB	1.0E-104 X0
SEQ ID OR SEQ ID OR NO: 100. 100. 100. 100. 100. 100. 100. 100		Expression Signal	9.2	3.56	2.04	2.04	222	4.2	5 6	2.8	10.74	2.41	2.11	2 83	3.73	3.73	2.18	3,68	2.57	1.38	1.38	1.68	1.11	1.11	7.41	2.74	2.04	0.79	0.79	0.76	3.93
						١			36718	37340	36421	37667		31091	25678	25677	27328	27653	27666	27829	27830	27893	27965	27966	28285			28986	28987	29315	29712
NO: NO: NO: NO: NO: NO: NO: NO: NO: NO:					_ 1	- 1			1	П	23190	24339	24494	24620	13039	13039	14618	14919	14929	15091	15091	15158	15224	15224	15641	15683	16145	16341	16341	16674	17083
		Probe SEQ ID NO:	10138	10634	10737	10737	10748	10793	10793	11347	11423	11748	11937	12128	227	227	1881	2190	2201	2369	2369	2438	2507	2507	2874	2917	3386	3587	3587	3924	4344

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	Top Hit Descriptor		Inditio suplens chromosome 21 unknown mRNA	Homo sapiens chromosome 21 unknown mRNA	Homo sapiens death receptor 6 (DR6), mRNA	Human Down Syndrome region of chromosome 21 DNA	Human Down Syndrome region of chromosome 21 DNA	Homo sapiens aik3 mRNA for Aurora/lp11-related kinase 3, complete cds wj03b12.x1 NCI_CGAP_Kid12 Homo sapiens cDNA clone IMAGE:2401727 3' similar to TR:Q14145 Q14145	wigsb12.x1 NCI_CGAP_Kid12 Homo sapiens cDNA clone IMAGE:2401727 3' similar to TR:014145 014145	NAME 132 PROTEIN, contains element LTR7 repetitive element;	60415045454 NIH MOC 4011	60145045151 NILL MCC 42 11	Homo sapiens adauthr-related motion	III-H-Bit comb to 00 11 of NO. 00000	nad16a11.x1 NCI CGAP 1.124 Home capiens cDNA clone IMAGE:3086176 3	298b05.51 Soares fefal liver enless which Salvers Court clone IMAGE:3365948 3	vc83f02 r1 Scares infant brain 1/1/19 Users	Homo sabiens Trio isoform mBNIA complete du Adone iMAGE:22440 5'	Home carience Trick indexes — Date	IL3-H70619-080900-240-E07 H70619 Long	IL3-HT0619-080900-249-F07 HT0619 Home septems contact	xd76d02x1 Soares_NFL_T_GBC_S1 Home septems cDNA clone IMAGE:2603523 3' similar to TR:Q24116 Q24116 HYPOTHETICAL 20.4 KD BECTERN	xd76d02.x1 Sogres_NFL_T_GBC_S1 Homo saplens cDNA clone IMAGE:2603523 3' similar to TR:024116	424116 HYPOTHETICAL 29.4 KD PROTEIN.;	Homo saplens histone acetyltransferase MORF mRNA, complete cds	00136130371 NIH_MGC_7 Homo saplens cDNA clone IMAGE:3935977 5	60/1381503F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3935977 5'	AV /280/0 HTC Homo saplens cDNA clone HTCBYA07 5'	AU130765 N 12RP3 Homo sapiens cDNA clone NT2RP3001398 5'	Fluman beta4-integrin (ITGB4) gene, exons 19,20,21,22,23,24 and 25	RC0-HT0885-310700-021-boo HTmode U
Ë	Database Source	12						- N		NAMOL	H HIMAN	Т	T	7	EST HUMAN	Т-	EST HUMAN V	Т		T HUMAN	HUMAN	EST HUMAN O	T	NAMODE	1	Ţ	EST HUMAN OF	NOWAN	HOMAN		T HUMAN
	Top Hit Acession , No.	1.0E-104 AF231920 1	E234020 4	1 05 404	80/08	7	1.0E-104 U43379.1			06512			25572							52841.1	52841.1	03848.1	03848 1]	T	T	1			77757	
Most Similar	(Top) Hit BLAST E Value	1.0E-104	1 0F-104	1 00 404	1.05-104	1.0E-104 U433/9.1	1.05-104	1.0E-104 AI768797 1	1.0E-104 AI768797 1	1.0E-104	1.0E-104 BE314182.1	1.0E-104 BE3	1.0E-104	1.0E-104 BF 509244.1	1.0E-104 BF448230.1	1.0E-104 AA682308.1	1.0E-104 T	1.0E-104 AF091395.1	1.0E-104 AF091395.1	1.0E-104 BF352841.1	1.0E-104 BF38	1.0E-104 AW1	1.0E-104 AW1	1 0E-104 AE112E1 4	1 0F-104 RF 701713 1	1 OF 104 BF	1.0E-104 AV728070 4	1 0F-104 At 143078F 4	1.0F-104 IRR535 1	1.0E-104	1.0E-104 BE720191.1
Control	Signal	1.23	133	100	80.4	2 4	7 42	9.51	9,51	0.75	3.31	3.31	2.03	0.83	5.23	0.5	1.31	4.27	4.27	4.4	4.4	0.85	0.85	0.71	2.83	2.83	1.29	4.51	4.41	0.92	2.07
CRATA			29933		31573	31574	31630	32141	32142	32322	32663	32664	32881	34330	34915	34997		35060	35061	33529	33530	35503	35504	35698	35852	35853	36160	36204	36327		37221
	<u>σ</u>	17305	17305	L		1	ı		19144	19316	19621	19621	19813	21187	21754	2 2 2	41804	21893	21893	20412	20412	22306	22306	22497	22641	22641	22946	22986	23096	23110	23930
Probe	SEQ ID NO:	4570	4570	5106	5850	5850	5897	6375	6375	6551	9029	92/9	7125	8495	8082	3 3	5 3	9214	9214	9341	1 24	9654	9654	9847	9993	8883	10299	10339	10450		11268

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				Most Similar			
Probe SEQ ID NO:	SEO ID NO:	ORF SEQ ID NO:	Expression Signal	(Top) Hit BLAST E Value	Top Hit Acesston No.	Top Hit Database Source	Top Hit Descriptor
11268	23930	37222	2.07	1.0E-104		П	RC0-HT0885-310700-021-b09 HT0885 Homo sapiens cDNA
11299			4.96	1.0E-104			602141215F1 NIH_MGC_46 Homo sapiens cDNA clone IMAGE:4302507 5'
11590		37505	1.75	1.0E-104	1.0E-104 BE731976.1		601566806F1 NIH_MGC_21 Hamo sapiens cDNA clone IMAGE:3841681 5
11590	L	١.	1.75	1.0E-104		T HUMAN	601566806F1 NIH_MGC_21 Hamo saplens cDNA clone IMAGE:3841681 5'
11791	L.		1.42	l	34729	LN	Homo saplens ribosomal protein S6 kinase, 90kD, polypeptide 5 (RPS6KA5), mRNA
12702			2.38	Ш	1.0E-104 BE393892.1	EST_HUMAN	601312181F1 NIH_MGC_44 Homo sepiens cDNA clone IMAGE:3658676 5'
272	15514	25722	11.13	1.0E-105	4502166 NT	LN	Homo sapiens amyord beta (A4) precursor protein (protease nexin-il, Alzheimer disaase) (APP), mRNA
416		L	8.99	ŀ	4505150 NT	TN	Homo sapiens Meis1 (mouse) homolog (MEIS1) mRNA
88	L		1.92	1.0E-105	5 AF032897.1	NT	Homo sapiens potasslum channel subunit (HERG-3) mRNA, complete cds
88	13360	25988	1.92	1.0E-105	15 AF032897.1	NT	Homo sapiens potassium channel subunit (HERG-3) mRNA, complete cds
1814	14554	27269	16.0	1.0E-105	2	NT	Homo sapiens chromosome 21 segment HS21C080
1919	L	L	1.93	1.0E-105		TN	Human mRNA for KIAA0128 gene, partial cds
2186	1_			1.0E-10	2	EST_HUMAN	EST20609 Spleen I Homo saplens cDNA 5' end similar to autoimmune antigen Ku, p70/p80 subunit
2322	1_			1.0E-10		EST_HUMAN	601434491F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3919511 5'
3008	15772		2.89		AJ229041.1	NT	Homo sapiens 959 kb config between AML1 and CBR1 on chromosome.21q22; segment 1/3
3346	16105	28759	88.0		7304922 NT	LZ	Homo sapiens bromodomain adjacent to zinc finger domain, 28 (BAZ2B), mKNA
3346	<u>l</u> _				1.0E-105 7304922 NT	L	Homo sapiens bromodomain adjacent to zinc finger domain, 2B (BAZ2B), mRNA
4077	16821	29447	2.07	İ		EST_HUMAN	EST373761 MAGE resequences, MAGG Homo saplens CUNA
4694	1_		0.74	1.0E-10	15 BE868881.1	EST_HUMAN	601445823F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3850156 5
4694	L	30059		1.0E-10		EST_HUMAN	601445823F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3830136 5
4886	17613		4.24	1.0E-10	35 AL163208.2	LN	Homo saplens chromosome 21 segment HS21 C008
5043	1	30377	1.16		1.0E-105 AB018339.1	LN	Homo sapiens mRNA for KIAA0796 protein, partial cds
5091	L	30426	0.94		1.0E-105 AW966015.1	EST_HUMAN	EST378088 MAGE resequences, MAGI Homo sapiens cDNA
5247	L	30681	96'0	L	1.0E-105 AF016704.1	TN	Homo saplens E6-AP ubiquitin-protein ligase (UBE3A) gene, exon 2
5312	18116		1.07		11420134 NT	ᅜ	Homo sapiens Retina-derived POU-domain factor-1 (KPF-1), mKNA
6804	19465	32485	2.16		1.0E-105 BF314302.1	EST_HUMAN	601901028F1 NIH_MGC_19 Homo saplens cDNA clone IMAGE:4130334 5
6804	L		2.16		1.0E-105 BF314302.1	EST_HUMAN	601901028F1 NIH_MGC_19 Homo saplens cDNA clone IMAGE:4130334 5
6885		L		1.0E-1	11419196 NT	TN	Homo sapiens GTPase activating protein-like (GAPL), mRNA
6885	! _	L	3.65	1.0E-105	11419196 NT	LN	Homo sapiens GTPase activating protein-like (GAPL), mRNA
6927	L	L	0.83	1.0E-1	05 AW951634.1	EST_HUMAN	EST363689 MAGE resequences, MAGB Homo sepiens cDNA
7184	ı	32944	0.59	1.0E-1	05 BE902616.1	EST HUMAN	601677279F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3960019 5
7722	1				6806894 NT	TN	Homo sapiens plakophilin 4 (PKP4), mRNA
7758	١		0.97	1.0E-1	05 X12556.1	TN	Human mRNA for dbl proto-oncogene
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			TT		7	Т	\neg	\neg	т	Т	Т	т		-	-	_	-		_	÷	****	* 1	\$2	*1-	er June	1,644		"~.·	***	Mr 4711	of the	ı
Single Exon Probes Expressed in Brain	Top Hit Descriptor	FST02075 Early Levin State	ws50c10.x1 NCI_CGAP_Bm25 Home sapiens cDNA clone HFBCR32	SW.ACSA_PENCH P36333 ACETYL-COENZYME A SYNTHETASE	RC1-CN0008-070100-011-e05 CN0008 Homo saplens cDNA	Ut-H-Biop-abi-b-12-0-UI.s1 NCI_CGAP_Sub2 Homo sapiens cDNA clone IMAGE-2711782-2	UV 2-U 10062-140300-083-d09 OT0062 Homo sapiens cDNA	LV 2-0 10062-140300-083-409 OT0062 Homo saplens cDNA	001443/55F1 NIH_MGC_65 Homo saplens cDNA clone IMAGE:3847884 5	OO 1443/33F1 NIH MGC 65 Homo sepiens CDNA clone IMAGE:3847884 5	riomo sapiens SMARCA4 isoform (SMARCA4) gene, complete cds. elternatively soliced	Homo sapiens COL4A6 gene for a6(IV) collagen, exon 31	Homo sapiens Ran binding protein 11 (LOC51194), mRNA wv74f07.x1 Sogres, thymus, NHFTh, Homo, conject, characteristics, charac	P87892 PROTEASE;	7o18c10.x1 NCI_CGAP_Kid11 Hamo sapiens cDNA clone IMAGE:3574291 3' similar to TR-Pa7eRo Po7eso		rigino sapiens gene for Smad 3, exon 2 and 3	From Sapiens gene for Smad 3, exon 2 and 3	U-HI-BN0-art-g-07-0-ULT NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3078348 5	tq/9c01.x1 NCI_CGAP_Utf Homo saplens cDNA clone IMAGE:2215008 3'	ESTATION MAGE resequences, MAGI Homo sapiens cDNA	numen dinydroroidte reductase pseudogene (psi-hd1)	Homo cariant and the control of the	Human endermal month force: 700 man force of the force of	ng41c05.st NCI_CGAP_Cos Homo sapiens cDNA clone IMAGE:937352.3' similar to contains element	12. No repetitive element; 1941c05.s1 NCI_CGAP_Co3 Homo sapiens cDNA clone IMAGE:887352 3' similar to contains along the	LIR3 repetitive element;	MK0-H10165-140200-008-d10 HT0165 Homo saplens cDNA			7.3'	LANGIN (1
ngle Exon Pro	Top Hit Database Source	EST HUMAN		EST HUMAN	EST HUMAN	EST HUMAN	EST HOWAN	NAME OF LOS	ENT LIMAN	ביים ביים	L N	1	Z	EST HUMAN	TWANT LE	T		1444	T	T	T				EST HIMAN	T	7	LIOMAN	T LI IAAAN	Т	Naio: -	
Sir	Top Hit Acess No.	1.0E-105 T05087.1	05 AWO07404 4	05 AW 007 194.1	1.0E-105 AW048870 4	1.0E-105 AWAR2372 4	1.0E-105 AW882372 4	15 BF867703 4	1.0E-105 BE867793 1	1.0E-105 AF254822 4	1.0F-105 DR3549 4	770500	N ocean	1.0E-105 AW027554.1	1.0E-105 BF430921 1	Ī		T.	T]			2.7		AA527446.1			74.84	BE260201 1	T	04184	
	Most Similar (Top) Hit BLAST E Value	1.0E-105	1 OF-405	1 OF 10s	1 0F-105	1.0E-105	1.0E-105	1.0E-105	1.0E-105	1.0E-105	1.0F-105	1 OF 105		1.0E-105	1.0E-105	1.0E-105	1.0E-105	1.0E-108	1.0E-106	1.0E-106	1.0E-106 J00146 1	1.0E-106 J00146.1	1.0E-106/	1.0E-106	1.0E-106/					1.0E-108 A		
	Expression Signal	6.55	1,41	0 68	2.82	6.0	6.0	0.68	0.68	5.73	1.59	2.38	0	2.38	1.43	1.73	1.73	1.39	1.79	2.68	0.75	2.08	1.33	3.48	4.71	4.71	231	2.89	1.82	3.24	1.91	
	ORF SEQ ID NO:	33750	34129	L		34954	34955	35247	35248	36776	37146	37204	37404	0/494	37592	37753	37754		25654	25947	26000	26000	26948	27138	27245	27246	27578	27778	28064	28210	26842	
	Exon SEQ ID NO:	20622	20991	21518	L	ш	1	22077	22077	23531	23860	23912	24179	2	24270	24415	24415	12962	13013	13313	13371	13371	14262	14440	14536	14536	14849	15040	15322	15466	14159	
	SEQ ID NO:	7927	8297	8826	8948	9103	9103	9467	9467	10850	11195	11250	11580		11675	11831	11831	147	8 R	83	<u>გ</u>	285	1515	1697	1796	1796	2118	2315	2810		2828	
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Page 434 of 536 Table 4 Single Exon Probes Expressed in Brain

O	01/57275		_	т	_	_	_	_	_	_	_	-							. #	4.,	<u></u>	_	· 1/10	ıř.,5	di	PÇ'	[/ <u>[</u>	JŞC	1/	906	67	
Lyon Lopes Expressed in Brain	Top Hit Descriptor		riomo sabiens glutathione S-transferase theta 1 (GSTT1), mRNA	Homo sapiens mRNA for KIAA1326 protein, partial cds	Homo sapiens mRNA for KIAA1326 protein, partial cds	Homo saplens hypothetical protein FLJ11273 (FLJ11273), mRNA	Homo saplens hypothetical protein FLJ11273 (FLJ11273), mRNA	Homo sapiens gene for activin receptor type IIB, complete cds	Homo saplens mRNA for KIAA1278 protein, partial cds	Homo sapiens mRNA for KIAA1278 protein, partial cds	ES 13868/3 MAGE resequences, MAGN Homo saplens cDNA	EST 3868/3 MAGE resequences, MAGN Homo sapiens cDNA	riomo sapiens API5-like 1 (API5L1), mRNA	WRU-FI 0165-140200-008-410 HT0165 Homo sapiens cDNA H.sapiens mRNA similar to D29763 mouse mRNA for seizure-related gene product 6. Shares domeins with	binkrs, I dioid, Sushi repeat proteins H. saplens mRNA similar to D29763 mouse mRNA for seizure-related one profitrit 6. Shores domains with	BMPs, Tolloid, Sushi repeat proteins al24b09.st Sogres feetis NHT Hamp conjugation and the second se	PHPS1-2 (HUMAN);	AU130113 NT2RP3 Homo saplens cDNA clone NT2RP3000274 5'	AU130113 NT2RP3 Homo sapiens cDNA clone NT2RP3000274 5'	ZW 26012,S1 Sogres ovary fumor NbHOT Homo saplens cDNA clone IMAGE:7706153'	AU 142426 1794A1 Homo sapiens cDNA clone Y79A41001912 5	S0245404254 MILL MCC SEPIEDS CDNA clone Y79AA1001912 5	601439670F1 NIH MCC 33 Homo saplens cDNA clone IMAGE:4295067 5	Horse Control Man Control Septens CDNA clone IMAGE:3924641 5'		(12), mRNA 311 Homo sepiens cDNA close IMACE occaso of the first occasions			4A clane (MAGE:2988345 5'		AU116850 HEMBA1 Homo saplens cDNA clone HEMRA1000120 F.	
פור בייסיו בייסיו	Top Hit Database Source	FIA	- !	Z		Į.	Z !!	2	2 12	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Т	N CONTRACT	11000	T^{-}		2	7	7	Т	EST TIMAN	_	EST HIMAN	┰	Т			HOMAN		HOMAN		T_HUMAN	
	Top Hit Acessian No.	4504494 NIT	+00+1004	AB037747.1	17111000	IN CORTEGO	0062760	AB022404.4	AB033104.1	1 W974650 4	4W974650 4	5720720INT	F144286 1	050253 4	050253 4		Ī		T					5913	11545913 NT		663779.1	11429617	232122.1	11425503 NT	116850.1	
	Most Similar (Top) Hit BLAST E Value	1.0E-106	1 OF 408	1 0F-108	1 0F-108	1 OF 108	100.100	1 OF-106	1.0E-106	1.0E-106	1.0E-106	1.0E-106	1.0E-108 R	1.0E-10B	1 0F-108 AT		1.0E-106 AA781155.1	1 0F-106 At 1430442 4	1.0E-106 AA434168 4	1.0E-108 AU143428 1	1.0E-106 AU143428.1	1.0E-106 BF679574.1	1.0E-106 BE	1.0E-106	1.0E-106	100	1.0E-106 AA	1.05-100	1.0C-100 B	1.0E-106	1.0E-106 AU	
	Expression Signal	1.91	5 23	5 23	2.18	2.18	284	1.18	1.18	7.95	7,95	1.05	4.	1.09	1.09		2.81	0.58	0.58	1.3	1.3	4.89	0.77	17.66	17.66	a d	0 2	1.04	0 00	9.29	0.67	
	ORF SEQ ID NO:	26843	28357		28588		l			29391	29392	29410	29924	30469	30470	1	31480	31481	31533	31637	31638	31755	31860	32083	32084	33034	33084	33161	33275	33276	33491	
L	SEQ ID NO:	14159	15707	15707	15939	15939	L	16190	16190	16763		_	17297	17853	17853	9000	18555	18555	18605	18689	18689	18792	18892	19095	19095	19955	20002	20080	20182	20182	20378	
	Probe SEQ ID NO:	2828	2942	2942	3176	3176	3367	3434	3434	4017	4017	4035	4562	5135	5135	500E	5764	5764	5816	5904	5904	694	6303	6325	6326	7271	7324	7402	7511	7511	7714	
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ain	Top Hit Descriptor	601594331F1 NIH_MGC_9 Homo sepiens cDNA clone IMAGE:3948463 5	601594331F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3948463 5	ar68a07.x1 Barstead aorta HPLRB6 Homo sapiens cDNA clone IMAGE:2127732 3' similar to gb:X08233 CALGRANULIN B (HUMAN);	2.44 Homo sapiens cDNA clone IMAGE:3604493 5	601282717F1 NIH_MGC_44 Homo sapiens cDNA cione IMAGE:3604493 5'	ty62805.x1 NCI_CGAP_Ktd11 Homo sapiens cDNA clone IMAGE:2283632 3' similar to SW:ICA6_HUMAN Q05084 69 KD ISLET CELL AUTOANTIGEN;	6-e06 LT0059 Homo sapiens cDNA	oc67e08.s1 NCI_CGAP_GCB1 Homo saplens cDNA clone IMAGE:1354790 3'	oc67e08.s1 NCI_CGAP_GCB1 Homo saplens cDNA clone IMAGE:1354790 3'	cn03a04.y1 Normal Human Trabecular Bone Cells Homo saplens cDNA clone NHTBC_cn03a04 random	tm41f02.x1 NCI_CGAP_Kid11 Homo sepiens cDNA clone IMAGE:2160699 3' similar to contains MSR1.t3 TAR1 PTR5 repetitive element;	tm41f02.x1 NCI_CGAP_Kid11 Homo sepiens cDNA clone IMAGE:2160699 3' similar to contains MSR1.t3 TAR1 PTR5 repetitive element:	601282387F1 NIH_MGC_44 Homo sapiens oDNA clone IMAGE:3604217 5'	20 Homo sapiens cDNA clone IMAGE:3954403 5'	601671674F1 NIH_MGC_20 Homo sepiens cDNA clane IMAGE:395403 5'	np57b10.s1 NCI_CGAP_Br2 Homo sapiens cDNA clone IMAGE:1130395 3'	np57b10.s1 NCI_CGAP_Br2 Homo saplens cDNA clone IMAGE:11303953'	11-a11 CT0318 Homo saplens cDNA	DKFZp434F0712_r1 434 (synonym: htes3) Homo sapiens cDNA clone DKFZp434F0712 5'	me 21 segment HS21 C002	601453461F1 NIH_MGC_66 Homo sapiens cDNA clone IMAGE:3857366 5'	601453461F1 NIH_MGC_66 Homo sapiens cDNA clone IMAGE:3857366 5	or mRNA, complete cds	or mRNA, complete cds	601109219F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3349997 5'	11-B02 BN0192 Homo sapiens cDNA	11-B02 BN0192 Homo sapiens cDNA	7 Homo sapiens cDNA clone IMAGE:2961644 5'	601433087F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3918524 5
ssed in Brain	Top Hit Descript	F1 NIH_MGC_9 Homo sepiens cDNA clone IMAG	F1 NIH_MGC_9 Homo sapiens cDNA clone IMAG	ar68a07.x1 Barstead corta HPLRB6 Homo sapiens cDNA clon CALGRANULIN B (HUMAN);	F1 NIH_MGC_44 Homo sapiens cDNA clone IMAC	F1 NIH_MGC_44 Homo sapiens cDNA clone IMAC	162a05.x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMP Q05084 69 KD ISLET CELL AUTOANTIGEN;	CM4-LT0059-150200-096-e06 LT0059 Homo sapiens cDNA	NCI_CGAP_GCB1 Homo saplens cDNA clone IN	NCI_CGAP_GCB1 Homo sapiens cDNA clone IN	Normal Human Trabecular Bone Cells Homo saple	tm41f02.x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IM/ TAR1 PTR5 repetitive element;	tm41f02.x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMP TAR1 PTR5 repetitive element:	F1 NIH MGC 44 Homo sapiens cDNA clone IMAC	F1 NIH_MGC_20 Homo sapiens cDNA clone IMAC	F1 NIH_MGC_20 Homo sapiens cDNA clone IMAC	NCI_CGAP_Br2 Homo sapiens cDNA clone IMAC	NCI_CGAP_Br2 Homo saplens cDNA clone IMAC	RC0-CT0318-201199-031-a11 CT0318 Homo saplens cDNA	-0712_r1 434 (synonym: htes3) Homo sapiens cDh	Homo sapiens chromosome 21 segment HS21C002	F1 NIH_MGC_66 Homo sapiens cDNA clone IMAC	F1 NIH_MGC_66 Homo sapiens cDNA clone IMAC	Human ryanodine receptor mRNA, complete cds	Human ryanodine receptor mRNA, complete cds	F1 NIH_MGC_16 Homo sapiens cDNA clone IMAC	RC5-BN0192-100500-021-B02 BN0192 Homo sapiens cDNA	RC5-BN0192-100500-021-B02 BN0192 Homo sapiens cDNA	fh05h11.x1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:2961644 5	F1 NIH_MGC_72 Homo sapiens cDNA clone IMAC
Single Exon Probes Expressed in Brain	Top Hit Database Source	HUMAN	EST_HUMAN 601594331	est HUMAN CALGRAN	Г	Π	ty62a05.x1 EST_HUMAN Q05084 69	Τ	EST_HUMAN oc67e08.s	EST_HUMAN 0067e08.s1	EST_HUMAN cn03e04.y	EST_HUMAN TAR1 PTR	tm41f02.x1	Г	HUMAN	HUMAN			\neg	EST_HUMAN DKFZp434	П	П	EST_HUMAN 601453461	Human rya				EST_HUMAN RC5-BN01		EST_HUMAN 601433087
Single	Top Hit Acessian D	06 BE741408.1 EST	1.0E-106 BE741408.1 EST	106 AI523066.1 EST			106 Al654123.1 EST	1.0E-106 AW838831.1 EST	106 AA825307.1 EST	1.0E-106 AA825307.1 EST	06 A1750447.1 EST	06 Al479569.1 EST	106 A1479569.1 EST		106 BF027310.1 EST	EST				106 AL039886.1 EST			106 BF032755.1 EST	J05200.1					_	106 BE894488.1 EST
	Most Similar (Top) Hit BLAST E Value	1.0E-1		1.0E-			1.0E-		1.0E-		1.0E-1	1.0E-1	1.0E-	1.0E-	1.0E-	1.0E-106	1.0E-106	1.0E-	10	1.0E-106	1.0E-106	1.0E-106	1.0E-106	1.0E-106	1.0E-106	1.0E-1	1.0E-1	1.0E-106	1.0E-106	1.0E-106
	Expression Signal	6.44	6.44	1.38	0.47	0.47	3.64	0.58			1.28	1.8	1.8		1.09	1.09						7.1							٠	3.32
	ORF SEQ ID NO:	33707	33708	33897	34361	34362	34443	34788	34889	34890	35021	35169	35170		35841													37437		31068
	Exan SEQ ID NO:	20579	20579	20768	21219	21219	21299	21641		21735	21856	21996	21996	L	L				- 1	- 1	- 1		_				24132			24664
	Probe SEQ ID NO:	7884	7884	8074	8527	8527	8607	8950	9045	9045	9186	9329	9329	9902	9984	9984	10141	10141	10185	10358	10479	10812	10812	10995	10995	11384	11532	11532	11981	12193

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01/57275		Т	Ť	_	7	٦	_	Т	T		П	_	1	Т	T	Т	Т	7	T	i -	Ť	T [~]	T			P <u>C</u>	T /	US T	01	/00 	667	7
Top Hit Descriptor		601433087F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE 3918524 5	RC1-CT0249-090800-024-d05 CT0249 Homo sapiens cDNA	Homo sapiens Xq pseudoautosomal region; segment 1/2	Human IFNAR gene for interferon alpha/beta recentor	Homo sapiens neuronal cell adhesion molecule (NPCAM) BNA	Homo saplens NY-REN-25 antgen mRNA, partial cds	Human IFNAR gene for interferon alpha/beta receptor	Homo sapiens sodiim-denendont transfer in	Homo sapiens BAZ18 mRNA for homodomeir citic 11.	QV2-HT0540-120900-358-805 HT0540 Home sanians - DNA	Homo sapiens cathepsin Z precursor (CTSZ) gene evon 3	Homo saplens mRNA for KIAA0453 protein, partial cds	Homo sapiens mRNA for KIAA0453 protein, partial cds	Human dipeptidyl peptidase IV (CD26) gene, exon 20	PM1-CN0031-190100-001-d03 CN0031 Homo sapiens cDNA	FINIT-CN0031-190100-001-d03 CN0031 Homo sapiens cDNA	601567619E1 NIH MGC 21 Homo saplens cDNA clone IMAGE:3842309 5'	PM4-CN0004-400400 004-400 Oktober 1	PM4-Chino34 404400 001 100 011 Home sapiens cDNA	Homo seplens SMT3 / 2012	Homo sapiens modifination (ATMA)	EST381115 MAGE TEACH IN THE COLUMN IS BEING STATE TO THE COLUMN IN THE C	601442558F1 NIH MGC 65 Home septems cDNA	Home conjects	months separats general transcription factor IIIC, polypeptide 1 (alpha subunit, 220kD) (GTF3C1), mRNA	Homo sapiens general transcription factor IIIC, polypeptide 1 (alpha subunit 220km) (CTE2C4)	UI-HF-BN0-afr-c-08-0-UI-r1 NIH_MGC_50 Homo sapiens cDNA clone IMAGE 202020 A E	UI-HF-BN0-aff-c-08-0-UI.r1 NIH_MGC_50 Homo saplens cDNA clone IMAGE:3078310 5	913'	th08d11.x2 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:2964524 5	AU IZZ408 MAMIMAT Homo sapiens cDNA clone MAMMA1002433 5
Top Hit Database Source	100	HOMAN	EST HOMAN	N	LV.	Į,	Ā	LN.	Ę	L	EST HUMAN	۲	LN	Z	N I	EST DIMAN	EST HIMAN	EST HUMAN	EST HUMAN	EST HIMAN		LN	EST HUMAN	T				7	7	7	EST HIMAN	7
Top Hit Acession No.	BE804400 4	3 0	٠.	٠,	X60459.1	4826863	AF155103.1	X60459.1	1.0E-107 AF154121.1	1.0E-107 AB032253.1			1.0E-107 AB007922.2	49770 4	W842451 1	T			Γ		2097	Γ	Γ	1.0E-107 BE867469.1 E	11431469 NT	7	11431409	503913.1				7
Most Similar (Top) Hit BLAST E Value	1 0F-108	1 0F-10B	101	1.0E-10,	1.05-107	1.05-107	1.0E-107 A	1.05-107	1.0E-107	1.0E-107	1.0E-107	1.0E-107	1.0E-107	1 0F-107	1.0E-107	1.0E-107	1.0E-107	1.0E-107	1.0E-107	1.0E-107	1.0E-107	1.0E-107 AF	1.0E-107	1.0E-107 B	1.0E-107	1 0E.407	1 OF 407 AVA	1.0E-107 AW	1.0E-107 Alzeras 4	1 0E-107 AM 440064 4	1.0E-107 AU122469.1	
Expression Signal	3.32	4 6	4 42	1 20	RZ-	20.0	1.89	70.1	11.55	0.73	3.77	00.	88.0	0.95	1.45	1.45	1.2	1.2	3.89	3.89	2.63	5.14	99.0	3.2	1.45	1 45	1 42	1 42	148	90	0.95	
ORF SEQ ID NO:	31069					96036	26305		26379	7007	27487	27.283	27284	27671	27822	27823	27991	27992	28421	28422	28502	29190	31242	31495	32506	32507	33023	33024	33193	33469	35213	
SEQ ID NO:	24664	24791	13040	13068	13385	13394	13635		13714	143004	14488	14571	14571	14933	15084	15084	15250	15250	15/73	15773	15861	16558	10230	18566	19484	19484	19947	19947	20106	20354	22041	
Probe SEQ ID NO:	12193	12408	228	258	607	916	888		948	1562	1746	1832	1832	2205	2362	2362	2535	2535) S	ò	3096	3806	┸	0//0	8823			7263	L	2690	1 1	

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Top Hit Descriptor	tg10d06.x1 NCI_CGAP_CLL1 Homo saplens cDNA clone IMAGE:2108363 3' similar to SW:AACT_DICDI P05095 ALPHA-ACTININ 3. NON MI ISCI II AD .	Homo sapiens neuroandocrine-smochic morbin (NEB)	602123963F1 NIH MGC 56 Home Smith Plans 1914	601066681E1 NIH MAC 4211	Homo series, USD 2012	Homo septens not Cute protein (HSPC049), mRNA	Homo sapiens solute certer formit to to the solute certer formit to to the solute certer formit to to the solute certer formit to to the solute solute certer formit to to the solute so	(SLC10A1) mRNA	riomo sepiens solute carrier family 10 (sodium/bile acid cotransporter family), member 1 (SLC10A1) mRNA ze45e01.s1 Soares retina N2b4HR Homo sapiens c/NNA chara INA CE 2000 4.1.0.	THR repetitive element;	601177018F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3532348 F	Homo saplens NF2 gene	bb25b10.x1 NIH_MGC_14 Homo sapiens cDNA clone IMAGE:2963899 3' similar to above 272 000	KIBOSOMAL PROTEIN L23 (HUMAN); gb:J05277 Mouse hexokinase mRNA, complete cds (MOLISE).	Homo sapiens potassium channel subunit (HERG-3) mRNA, complete cds	nomo septens potessium channel subunit (HERG-3) mRNA, complete cds hi12a11.x1 NCI_CGAP_GU1 Homo septens cDNA clone IMACE:วิชีรวิกิศก ระกาณและ to causana	P55194 SH3-BINDING PROTEIN 3BP-1.;	Human hepatooyle nuclear factor 4-alpha gene, exon 2	riuman hepatooyle nuclear factor 4-alpha gene, exon 2	Fromo sapiens KIAA0187 gene product (KIAA0187), mRNA	Homo sapiens PSN1 gene, alternative transcript	RC0-H10372-241199-031-d03 HT0372 Homo sapiens cDNA	601444922F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3848980 5'	601444922F1 NIH_MGC_65 Homo saplens cDNA clone IMAGE:3848980 6	Homo sapiens familial mental retardation protein 2 (FMR2) gene, exon 20	cds	Homo sapiens FYVE domain-containing dual specificity protein phosphatase FYVE-DSP2 mRNA, complete cds
Top Hit Database Source	EST_HUMAN	N	EST_HUMAN	EST HUMAN	Т						HOMAN	Z		FO HOMAN		7	HOMAN				Т	TOT HUMAN	┱	HOMAN			
Top Hit Acession No.	Al392850.1	49141.1		1.0E-107 BE540550.1	9701	11419701 NT	4506970 NT	ARDEDZO NIT	2	1	1	T	30ee04.4	032807.4	032897 4	T^{-}	2064 4	72084 4 ALT	7884070	000				T		264717.1 NT	264717.1 NT
Most Similar (Top) Hit BLAST E Value	1.0E-107 A	1.0E-107 L49141.1	1.0E-107 B	1.0E-107	1.0E-107	1.0E-107	1.0E-107	1.0E-107	1 00	1 OF 100 F	1.0E-100 DEZB0042.1	1.00	1 OF.108	1 0E-108 A E	1.0E-108 AF032897 1	1 OF-109 AMSS4429	1 0F-108 17	1 0F-108 117	1.0E-108	1.0E-108 A IDOROGE 4	1.0E-108 AW384004 4	1.0F-108 RE860018 1	1 0F-408 BE860464	1.0E-108 AE012673.4		1.0E-108 AF2	1.0E-108 AF264717.1
Expression Signal	3.18	14.26	1.71	6.66	5.97	5.97	1.38	1.36	88	268	1 87		4.97	0.71	0.71	4-	2.18	2.18	1.74	2.8	1.15)	1.7	17	0.99		8.13	6.13
ORF SEQ ID NO:	36537	36007	70000	3/232	36405	36406	37768	37769		26367	26657		27883	28755	28756	29507	29853	29854	30113	30241	30883	30954	30955		-	31790	31791
Exen SEQ ID NO:	23297	1	L	40804	23178	23178	24427	24427	25328	13702	13991		15149	16103	16103	16878	17225	17225	17484	17623	18191	18239	18239	18626		8228	18828
Probe SEQ ID NO:	10866	10880	1303	2007	136/	1138/	11843	11843	12043	835	1242		2428	3344	3344	4136	4489	4489	4752	4896	5391	5440	5440	5837		9	6048

PCT/US01/00667

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Single Exon Probes Expressed in Brain	Most Similar Top Hit Acession (Top) Hit Acession Signal BLASTE No. Source Source	1.27 1.0E-108 AJ133269.1 NT			0.63 1.0E-108 AF016706.1 NT	5.82 1.0E-	3,55 1.0E-108 4758333 NT	1.16 1.0E-108 BE252607.1	0.84 1.0E-108 BF528912.1 EST_HUMAN	0.84 1.0E-108 BF528912.1 EST_HUMAN	108 AF083500.1 NT	0.48	0.48 1.0E-108 AW 408694.1 EST_HUMAN	0.75 1.0E-108 AF203977.1 NT	yy35h10.r1 Soares melanocyte 2NbHM Homo saplens cDNA clone IMAGE:273283 5' similar to PIR:A45773 23 0.54 1.0E-108 IN4974.1 EST HUMAN A45773 kelch protein, long form - fruit fiv.	1.73 1.0E-108 BE535227.1 EST HUMAN	1.98 1.0E-108 Y12490.1 NT	200	1.58 1.0E-108 AT £25591.1	81 3.82 1.0E-108 AW 980163.1 EST HUMAN ESTS/2020 MAGE resequences, wards indine sapiens clona.	2.2 1.0E-108 AV708790.1 EST HUMAN	1.67 1.0E-108 11441465 NT Homo sapiens G protein-coupled receptor 48 (GPR48), mRNA	1.68 1.0E-108 D63539.1 NT	2.41 1.0E-108 AK024447.1 INT	108 BF346356.1 EST_HUMAN	0.87	0.97 1.0E-109 D86974.1 NT	1.59	78 5.59 1.0E-109 4507712 NT Homo sapiens tetratricoperptide repeat domain 2 (TTC2) mRNA	26.8 1.0E-109[AB023216.1 NT	26.8 1.0E-109 AB023216.1 NT	98 10.97 1.0E-109 M28699.1 NT Homo sapiens nucleolar phosphoprotein B23 (NPM1) mRNA, complete cds
		L														L	L			\perp	L	L	L	L								Ш
	Exan ORF SEQ NO: NO:	18946 31918	18697 31650					20057 33137	20082 33164	20082 33165	20658	20709 33838	20709 33839	21636 34781	21674 34823		17911 30597	20000		23902 37191		24033	24054 37359	24671 31072	24906	12869 25488	12890 25523	13031 25667	13240 25878	13364 25992		13933 26598
	Probe ES SEQ ID SEI NO: N	6169	6265 1	Ц			7339 2		7405 2	7405 2	7963			8945 2		i	l_			11239 2	1.	11343 2			12583 2	41 1			454			Ш

Page 439 of 536 Table 4 Single Exon Probes Expressed in Brain

01/57275	_		_				,	,				_				1	j-	·	nZ	7400	, P	C	[/[•###	JS(1/	000	667	7 - Arel
Top Hit Descriptor	Homo sapiens nucleolar phosphoprotein B23 (NPM1) mRNA, complete cds	601186922F2 NIH MGC 15 Homo saplens cDNA clone IMAGE: 2959638 5'	601186922F2 NIH MGC 15 Homo sapiens cDNA clone IMAGE:2959636 5'	Homo sapiens mRNA for KIAA0018 protein, partial cds	Homo saplens chromosome 21 segment HS21C084	Homo sapiens SNF5/INI1 gene, exon 6	ow95a01.xf Soeres_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:1654536 3' similar to TR:002197 002197 CIRCULATING CATHODIC ANTIGEN :	ow95a01.x1 Scares_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:1654536 3' similar to TR:002197 002197 CRCULATING CATHODIC ANTIGEN	Homo sapiens guanylate cyclase activator 1A (retina) (GUCA1A) mRNA	J2816F Human fetal heart, Lambda ZAP Express Homo sapiens cDNA clone J2816 5' similar to ZINC FINGER PROTEIN 2NE33	CM3-NN0009-190400-150-f10 NN0009 Homo sanlens cDNA	CM3-NN0009-190400-150-f10 NN0009 Homo sapiens cDNA	Homo sapiens retinol dehydrogenase homolog isoform-1 (RDH) mRNA complete cde	Homo sapeins adenosine monophosphate deaminase 1 (AMPD1) gene. expns 8-10	Homo sapelns adenosine monophosphate deaminase 1 (AMPD1) gene, exons 8-10	MR0-HT0209-110400-108-a04 HT0209 Homo sapiens cDNA	Homo sapiens mRNA for KIAA0609 protein, partial cds	Homo sapiens mRNA for KIAA0609 protein, partial cds	ts98e06.x1 NCI_CGAP_GC6 Homo sapiens cDNA clone IMAGE:2239330 3' similar to WP:F53A2.8 CE16100 ;	nu93c12s1 NC_CGAP_Pr22 Homo sapiens cDNA clone IMAGE:1218282 3' similar to SW:GTT2_HUMAN P30712 GLUTHATHIONE S-TRANSFERASE THETA 2 :	nu93c12s1NCI_CGAP_Pr22 Homo sapiens cDNA clone IMAGE:12182623' similar to SW:GTT2_HUMAN P30712 GLUTHATHIONE S-TRANSFERASE THETA 2.	Homo saplens guanylate cyclase activator 1A (retina) (GUCA1A) mRNA	Homo sapiens KIAA0377 gene product (KIAA0377), mRNA	ya48e06.r1 Soares infant brain 1NIB Homo sapiens cDNA clone IMAGE:53057 5'	601186922F2 NIH_MGC_15 Homo saplens cDNA clone IMAGE:2959636 5"	601186922F2 NIH_MGC_15 Homo sapiens cDNA clone IMAGE:2959636 5'	AU137282 PLACE1 Homo sapiens cDNA clone PLACE1006159 5	602136446F1 NIH_MGC_83 Homo saplens cDNA clone IMAGE:4272922 5'
Top Hit Database Source	LZ	EST HUMAN	EST HUMAN	LN	LN	LN.	EST_HUMAN	EST HUMAN	LN	TOT LIMAN	EST HUMAN	EST HUMAN	LN LN	LN	N	EST_HUMAN		NT	EST_HUMAN	EST_HUMAN	EST HUMAN		トフ	EST_HUMAN	EST_HUMAN	HUMAN		EST_HUMAN
Top Hit Acessian No.	28699.1	E293673.1	E293673.1		2		1022328.1	A1022328.1	4504206 NT		12.1	1	Γ			1.0E-109 BE146144.1	1.0E-109 AB011181.2		655417.1	1.0E-109 AA662274.1	A662274.1	4504208 NT	7662083 NT	15400.1	1.0E-109 BE293673.1	293673.1	1137282.1	673718.1
Most Similar (Top) Hit BLAST E Value	1.0E-109 N	1.0E-109 B	1.0E-109 B	1.0E-109	1.0E-109	1.0E-109 Y17123.1	1.0E-109 A	1.0E-109	1.0E-109	1 0F-109 N85190 1	1.0E-109	1.0E-109	1.0E-109	1.0E-109 M37928.1	1.0E-109 M37928.1	1.0E-109	1.0E-109	1.0E-109	1.0E-109 A	1.0E-109	1.0E-109 A	1.0E-109	1.0E-109	1.0E-109 R	1.0E-109	1.0E-109	1.0E-109 AU	1.0E-109 E
Expression Signal	4	3.31	3.31	3.3	1.78	1.89	3.98	3.98	2.07	200	3.14	3.14	1.21	6.0	6.0	2.59	1.42	1.42	3.88	1.02	1.02	2.48	1.69	1.27	1.39	1.39	0.81	1.06
ORF SEQ ID NO:	26598	26967	26968	27315	27705	27714	28084	28085	28086	28464	28799	28800	28918	28953	28954		29357	29358	29497	29612	29513	29744	29923	30218	30320	30321	30534	30503
_ <u>v</u>	13933	14280	14280	14605	14965	14976	15340	15340	15341	15820	16142	16142	18264	16303	16303	16575	16723	16723	16869	16883	16883	17109	17296	17595	17715	17715	17976	17988
Probe SEQ ID NO:	1181	1533	1533	1867	2237	2248	2628	2628	2629	3054	3383	3383	3508	3548	3548	3823	3974	3974	4127	4141	4141	4371	4561	4867	4992	4992	5167	5179

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Single Exon Probes Expressed in Brain	Top Hit Descriptor		Homo saplens placental protein 11 (serine proteinase) (P11) mRNA	RC1-HT0615-200400-022-d04 HT0615 Homo saplens cDNA	CM1-UT0038-060900-399-h07 UT0038 Homo sapiens cDNA	RC1-HT0615-200400-022-d04 HT0615 Homo saplens cDNA	Homo sapiens mRNA for KIAA1591 protein, partial cds	Homo saplens AT-binding transcription factor 1 (ATBF1), mRNA	b01809495F1 NIH_MGC_18 Homo sapiens cDNA clone IMAGE:4040279 5'	001809495F1 NIH_MGC_18 Hamo saplens cDNA clone IMAGE:4040279 5'	NOT 143017FZ NIH_MGC_19 Homo saplens cDNA clone IMAGE:3160229 5	Nover ruman gene mapping to chomosome 13	TWIC-E1 U340-091299-002-e05 BT0340 Homo sapiens cDNA	7513577 Chromosome 7 Fetal Brain cDNA Library Homo saplens cDNA clone 7B18H01	0014/941/F1 NIH_MGC_68 Homo sapiens cDNA clone IMAGE:3882124 5'	10.14/9417F1 NIH_MGC_68 Homo seplens cDNA clone IMAGE:3882124 5	7890g08.r1 Soares retina N2b5HR Homo saplens cDNA clone IMAGE-222110 Et al. 1995 Anna	A53491 BUMETANIDE-SENSITIVE NA-K-C1 COTRANSPORTER - SPINY:	601289760F1 NIH_MGC_8 Homo saplens cDNA clone IMAGE:3620030 5'	601289760F1 NIH_MGC_8 Homo sapiens cDNA clone IMAGE:3620030 6'	HSC1EC121 normalized Infant brain cDNA Homo saplens cDNA clone c-1ec12	601063030F1 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:3449599 5'	Space 22 July MGC_10 Homo sapiens cDNA clone IMAGE:3449599 5'	Homo serions 2112 MGC 81 Homo sapiens cDNA clone IMAGE:4245341 51	Homo septems KIAA0744 gene product; histone deacetylase 7 (KIAA0744), mRNA	111.02.02 LEADED 1. 1. CANDUCT HISTONE DESCRIVES 7 (KIAA0744), mRNA	Homo sanians Chadlet Unantition to the HEMBB 1002690 5'	B IMAGE:301430 E' clastica 4						
igle Exon Pro	Top Hit Database Source	إ	Z	EST HUMAN		EST HUMAN	Z	I LOU	EST HOMAN	EST HOMAN	LA LOUIS	EST HIMANI	EST LIMAN	EST HUMAN	EST LINKAN	EST HIMAN		EST HUMAN	ES HUMAN	ES HOMAN	Т	EST HUMAN	Т	Caro		HIMAN	NO.		HOMAN	1,100	Т	NAMOL		
Sir	Top HIt Acession No.		01/4622 N	BE1/9356.1	DE 170356 4	DE 179356.1	14422574 NIT	1.0E-109 RF189707 4	1.0E-109 RF1827n7 4	3E263297 1	1.0E-109 AL049784 1	1.0E-109 AW749130 1	T	1.0E-109 BE787540 1	T	1.0E-109 BE145672 1			T	5	T			32279	7662279 NT	121370.1	4502838	6540 4	44440640	39540 4	39540 4	123.1		
	Most Similar (Top) Hit BLAST E Value	100 400	405 400	1 OF 109 B	1 05-109	1 0F-109 A	10F-109	10F-109	1.0E-109	1.0E-109	1.0E-109	1.0E-109	1.0E-109/	1.0E-109	1.0E-109 F	1.0E-109 B	4 OF 400 Us	1.0E-109 H64860.1	10F-109 BE	1.0F-109 FOREOA 4	1.0E-109 REEADONG 4	1.0E-109 BE540909 1	1.0E-109 BF694831 1	1.0E-109	1.0E-109	1.0E-109 AU	1.0E-109	1.0F-109 W/1	1 0F-109	1.0E-109 RE	1.0E-109 RE	1.0E-109 Y17123 1	1.0E-109 Y17123.1	
	Expression Signal	80.6	1	0.64	18	76.0	3.99	5.28	6.28	0.67	1.48	0.99	2.77	8.42	8.42	0.56	70	0.63	0.63	2.64	1.71	1.71	15.79	1.55	1.55	1.8	2.72	11.6	1.48	1.27	1.27	2.1	2.73	
	ORF SEQ ID NO:	30662		31560		32896	33230	33232	33233	33451	33896	34014		34466	34467	34711	34990	35101	35102	35218	36806	36607	36638	36818	36819	37013	37336	37291	37602	37773	37774	27714	27714	
	SEQ ID NO:	18036	18318	25078	18318	19827	20138	20140	20140	20338	20767	20877	21247	21325	21325	21567	21825	21929	21929	22046	23364	23364	23399	23568	23568	23739	24032	23990	24280	24432	24432	14976	14976	
	Probe SEQ ID NO:	5230	5520	5838	2807	7140	7464	7466	7468	7674	8073	8183	8555	8833	8633	8876	9137	9250	9250	9384	10673	10673	10710	10888	10888	11069	11342	11383					12328	
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Table 4
Single Exon Probes Expressed in Brain

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	Top Hit Descriptor	Homo sepiens gene for AF-6, complete cds	Homo sapiens deiodinase, iodothyronine, type II (DIO2), transcript variant 2, mRNA	Homo sapiens leucine-zipper-like transcriptional regulator, 1 (LZTR1), mRNA	Homo sapiens leucine-zipper-like transcriptional regulator, 1 (LZTR1), mRNA	C04498 Human heart cDNA (YNakamura) Homo saplens cDNA clone 3NHC3467	Homo sapiens deiodinase, iodothyronine, type II (DIO2), transcript variant 2, mRNA	Human dystrobrevin (DTN) gene, exon 20	Homo sapiens calcitonin receptor-like (CALCRL) mRNA	Homo sapiens BAZ1B mRNA for bromodomain adjacent to zinc finger domain 1B, complete cds	601237545F1 NIH_MGC_44 Hamo saplens cDNA clone IMAGE:3609683 5'	UI-H-BI4-eos-b-05-0-UI.s1 NCI_CGAP_Sub8 Homo sapiens cDNA clone IMAGE:30857843'	Homo saplens chondroitin sulfate proteoglycan 4 (melanoma-associated) (CSPG4), mRNA	Homo sapiens pregnancy-zone protein (PZP), mRNA	Homo sapiens pregnancy-zone protein (PZP), mRNA	bb82a05.y1 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:3048848 5' similar to TR:060312 060312 KIAA0568 PROTEIN ;	ou32b10.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:1627963 3' similar to	SW:N121_RAT P52591 NUCLEAR ENVELOPE PORE MEMBRANE PROTEIN POM 121;	AU117812 HEMBA1 Homo sapiens cDNA clone HEMBA1002241 5	Homo sapiens KIAA1002 protein (KIAA1002), mRNA	601118710F1 NIH_MGC_17 Homo saplens cDNA clone IMAGE:3028538 5'	601493677F1 NIH_MGC_70 Homo saplens cDNA clone IMAGE:3895795 5'	Homo sapiens hypothetical protein FLJ10300 (FLJ10300), mRNA	Homo sapiens hypothetical protein FLJ10300 (FLJ10300), mRNA	Human cystic fibrosis transmembrane conductance regulator (CFTR) gene, exon 7			b12408.x1 NC_CGAP_Brn25 Homo sepiens cDNA clone IMAGE:2167407 3' similar to SW:ETV1_HUMAN P50549 FTS TRANSI OCATION VARIANT 1	CBCCE04 8'			1007511 5'
	Top Hit Database Source	F	Ę	LN	Z	EST_HUMAN	Z	12	Z	Ŋ	EST HUMAN	EST HUMAN	L	LN LN	Į	EST HUMAN		EST_HUMAN	EST_HUMAN	LN	EST_HUMAN	EST_HUMAN	LN	LN	F	E	Ę	EST HIMAN	EST LIMAN	EST HUMAN	Į.	EST HUMAN
	Top Hit Acession No.	1.0E-109 AB01.1399.1	7549804 NT	TN 5803073 NT	5803073 NT	14498.1	7549804 NT	14550.1	5031620 NT	3032253.1	379477.1	Г	4503098	11436041 NT	11436041 NT	1.0E-110 BE018558.1		017213.1	1.0E-110 AU117812.1	32441	1.0E-110 BE299406.1	621069.1	11419323 NT	11419323 NT	55112.1			58028g 1	7744978 4	1	T	1137923.1
	Most Similar (Top) Hit BLAST E Value	1.0E-109	1.0E-110	1.0E-110	1.0E-110	1.0E-110 CC	1.0E-110	1.0E-110 UE	1.0E-110	1.0E-110 AE	1.0E-110	1.0E-110 BF	1.0E-110	1.0E-110	1.0E-110	1.0E-110		1.0E-110 AI	1.0E-110	1.0E-110	1.0E-110	1.0E-110 BE	1.0E-110	1.0E-110	1.0E-110 ME	1.0E-110 U08888.1	1.0E-110 U08888.1	1 0E-110 AI	1 01110	1.0E-110	1.0E-110	1.0E-110 AL
	Expression Signal	2.08	1,65	4.71	4.71	2.0	2.26	1.54	0.8	8.0	1.19	1.6	-	1.49	1.49	1.09		2.14	3.9	2.7	2.63	0.8	8.61	8.61	80.8	9.0	9.0	0.74	a	89	3.21	0.83
	ORF SEQ ID NO:	31047	25444	25482		25543	25444		26575		27361			l	28604	29407	<u> </u>		28972		30642	31347	31364	31365	32395	32748	32747	32983				33235
	Exon SEQ ID NO:	24813	12831	12864	12864	12905	12831	13298	13912		14651	14784	15613	15952	15952	16778	l	17328	17341	17644	18020	18434	18451	18451	25098	19694	19694	19909	ı	Į.	١.	H
	Probe SEQ ID NO:	12443	3	38	36	62	107	514	1157	1256	1914	2051	2845	3189	3189	4031		4591	4606	4916	5212	5639	5656	5656	6617	7002	7002	7224	7325	7325	7355	7469

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qp09g12.x1 NCI_CGAP_Kid5 Homo sapiens cDNA clone IMAGE:1917574 3' similar to gb:M29893 RAS a68f01.y1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:2805561 5' similar to TR:077258 077258 zw67g02.r1 Soares_testis_NHT Homo saplens cDNA clone IMAGE:781298 5' similar to TR:G1145816 wi68d01.x1 NCI_CGAP_Kid12 Homo sapiens cDNA clone IMAGE:2398465 3' similar to gb.J04813 CYTOCHROME P450 IIIA5 (HUMAN); qc31c12.x1 Soares_pregnant_uterus_NbHPU Homo sapiens cDNA clone IMAGE:1711222 3' PM3-NN1082-140900-006-f12 NN1082 Homo sapiens cDNA UI-H-BI4-aos-b-05-0-UI.s1 NCI_CGAP_Sub8 Homo sapiens cDNA clone IMAGE:3085784 3' DKFZp434C1815_r1 434 (synonym: hles3) Homo sapiens cDNA clone DKFZp434C1815 5^r UI-H-BW0-aif-d-03-0-UI:s1 NCI_CGAP_Sub8 Homo sapiens cDNA clone IMAGE:2729625 Homo sapiens collagen type IX alpha 1 chain (COL9A1) gene, exons 29, 30, 31, and 32 H.sapiens mRNA for myobonic dystrophy protein kinase like protein 801565604F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3840433 5' 801565604F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3840433 5' 601458631F1 NIH_MGC_68 Homo sapiens cDNA clone IMAGE:3862088 57 Homo sapiens cat eye syndrome critical region gene 1 (CECR1), mRNA 601439784F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3924548 5' Homo sapiens phosphorylase kinase, alpha 1 (muscle) (PHKA1), mRNA 801443690F1 NIH_MGC_85 Homo sapiens cDNA clone IMAGE:384766 Human enkephalin B (enkB) gene, exon 4 and 3' flank and complete cds Human cardiac alpha-myosh heavy chain (MYH6) gene, exons 32 to 34 Homo sapiens DKFZP434D156 protein (DKFZP434D156), mRNA Homo sapiens ras GTPase activating protein-like (NGAP) mRNA Fop Hit Descriptor QV2-LT0053-020400-119-e04 LT0053 Homo sapiens cDNA IL2-NT0101-280700-114-E03 NT0101 Homo sapiens cDNA L0-BT0163-040899-094-g10 BT0163 Homo sapiens cDNA Homo sapiens KIAA0555 gene product (KIAA0555), mRNA Human ribosomal protein L23a mRNA, complete cds Homo sapiens galactokinase 2 (GALK2), mRNA Homo sapiens gene for AF-6, complete cds RELATED PROTEIN RAL-A (HUMAN); Single Exon Probes Expressed in Brain EG:114D9.2 PROTEIN. G1145816 FKBP54 EST_HUMAN EST_HUMAN EST HUMAN EST_HUMAN EST HUMAN EST HUMAN NT EST_HUMAN EST_HUMAN EST_HUMAN EST_HUMAN EST_HUMAN HUMAN EST_HUMAN EST_HUMAN HUMAN EST HUMAN Top Hit Database Source 4758807 NT 7662177 NT 7661569 4505778 11432732 8393092 Top Hit Acession BE867909.1 1.0E-110 BE897218.1 1.0E-110 AW062258.1 1.0E-111 AW294648.1 1.0E-110 BE302594.1 1.0E-110 BE734357.1 1.0E-110 BE734357.1 AA446529.1 1.0E-110 BF364546.1 BF035327.1 AB011399.1 1.0E-110 A1127761.1 BF508896.1 1.0E-111 AI344679.1 1.0E-111 AI761228.1 ģ BF366228 1.0E-111 M25142.1 Y12337.1 U43701.1 K02268 1 1.0E-110 1.0E-110 1.0E-111 .0E-111 1.0E-110 1.0E-111 1.0E-111 1.0E-110 1.0E-111 1.08-11 (Top) Hit BLAST E Most Similar 1.0E-1 2.99 0.62 3.45 4:13 10.84 4.54 3.25 1.05 2.38 5.13 3.82 1.43 .02 1.08 1.98 3.75 8 Expression Signal 33198 35308 36816 31683 32357 ORF SEQ ID NO: 36081 36578 36418 26154 36817 25645 26338 29522 31249 33104 30057 32668 20110 SEQ ID 21913 22129 23567 13673 18724 18343 23187 14962 17425 23567 16892 18341 19624 Exon ÿ 5942 6580 7433 Probe SEQ ID 9234 10648 10887 10887 11420 11939 12346 12429 98 4150 5544 7347 10221 12061 191 1624 2234 4296 4691 ö

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	Top Hit Descriptor	Homo sapiens basio transcription factor 2 p44 (btf2p44) gene, partial cds, neuronal apoptosis inhibitory protein (naip) and survival motor neuron protein (smn) genes, complete cds	zs79g03.r1 NCI_CGAP_GCB1 Homo sapiens cDNA clone IMAGE:703732 6' similar to TR:G1256410 G1256410 11-ZINC-FINGER TRANSCRIPTION FACTOR.;	zs79g03.r1 NCI_CGAP_GCB1 Homo sapiens cDNA clone IMAGE:703732 5' similar to TR:G1256410 G1256410 11-ZINC-FINGER TRANSCRIPTION FACTOR: ,	Homo sapiens protein x 0001 (LOC51185), mRNA	Human beta4-integrin (ITGB4) gene, exon 13	Homo sapiens nuclear factor of activated T-cells, cytoplasmic 2 (NFATC2), mRNA	Homo sapiens mRNA for FLJ00045 protein, partial cds	Homo sapiens cone sodium-calcium potasstum exchanger splice variant (NCKX) mRNA, complete cds	601847132F1 NIH_MGC_55 Homo sapiens cDNA clone IMAGE:4078303 5'	Human mRNA for Integrin alpha-2 subunit	Human mRNA for integrin alpha-2 subunit	Homo sapiens Trio isoform mRNA, complete cds	QV2-BT0817-270900-398-e06 BT0817 Homo sapiens cDNA	aa58g02.s1 NCI_CGAP_GCB1 Homo sapiens cDNA clone IMAGE:825170 3' similer to gb:L09235 VACUOLAR ATP SYNTHASE CATALYTIC SUBUNIT A, UBIQUITOUS (HUMAN);	Homo saplens RGH1 gene, retrovirus-like element	z/31f01.r1 Soares_pregnant_uterus_NbHPU Homo sapiens cDNA clone IMAGE:503545 5'	Human thrombopoletin receptor (MPL) gene, exons 1,2,3,4,5 and 6	cn07a11.x1 Normal Human Trabecular Bone Cells Homo sapiens cDNA clone NHTBC_cn07a11 random	Homo sapiens meningloma (disrupted in balanced translocation) 1 (MN1), mRNA	AV708482 ADC Homo sapiens cDNA clone ADCAOB08 5'	Homo sapiens mRNA for neurexin I-alpha protein, complete cds	Homo sapiens acetyl-Coenzyme A carboxylase beta (ACACB), mRNA	Human steroidogenic acute regulatory protein (StAR) gene, exon 5	Human steroldogenic acute regulatory protein (StAR) gene, exon 5	UI-H-BI4-actg-04-0-UI.s1 NCI_CGAP_Sub8 Homo sapiens cDNA clone IMAGE:3086023 3'	UI-H-BI4-act-g-04-0-UI,s1 NCI_CGAP_Sub8 Homo sapiens cDNA clone IMAGE:3086023 3'	Homo sapiens HTRA serine protease (PRSS11) gene, complete cds	ZINC FINGER PROTEIN 135
	Top Hit Database Source	LN	EST_HUMAN	EST HUMAN	FZ	LN	L	NT	LΝ	EST_HUMAN	LN	L	LN	EST HUMAN	EST_HUMAN	FN	EST_HUMAN	IN	EST_HUMAN	LN	EST_HUMAN	LN	LN	TN	TN	EST HUMAN	EST HUMAN	LN	SWISSPROT
	Top Hit Acession No.	1 U80017.1	1 AA278868.1	1 AA278868.1	11431896 NT	1 U66533.1	11420516 NT	1 AK024453.1	1 AF177987.1	1 BF214902.1	1 X17033.1	1 X17033.1	1 AF091395.1	1 BF333210.1	1 AA504160.1	1 D10083.1	1 AA131248.1	1 U68159.1	1 AI751071.1	11417901 NT	1 AV708482.1	1 AB035356.1	4501854 NT	2 U29103.1	2 U29103.1	2 BF509039.1	2 BF509039.1	23.1	2 P52742
	Most Similar (Top) Hit BLAST E Value	1.0E-111	1.0E-111	1.0E-111	1.0E-111	1.0E-111	1.0E-111	1.0E-111	1.0E-111	1.0E-111	1.0E-111	1.0E-111	1.0E-111	1.0E-111	1.0E-111	1.0E-111	1.0E-111	1.0E-111	1.0E-111	1.0E-111	1.0E-11	1.0E-11	1.0E-112	1.0E-112	1.0E-112	1.0E-112	1.0E-112	1.0E-112	1.0E-112
	Expression Signal	9.0	0.73	0.73	0.62	3.28	0.79	0.73	1.57	8.65	12.9	12.9	2.8	0.49	3.21	2.4	6.24	4.25	2.74	3.72	1.51	1.56	1.29	12.55	12.55	1.86	1.86	8.84	2.2
	ORF SEQ ID NO:	33279	33815	33816	33912	33967	34409	34513			34620	34621	34825	32066	35917		36038	36902	37376	37802	31040	30599	26001		26004	26029	26030		26458
	Exon SEQ ID NO:	20185	20688	20688	ı	20833	21271	21366	21399	21400	21474	21474	21676	21896	22700	22728	L	23649	24068	24464	24800		13372		13374		13395		13800
	Probe SEQ ID NO:	7514	7993	7993	8088	8139	8579	8674	4028	8708	8782	8782	8986	9217	10052	10080	10172	10973	11465	11897	12424	12672	594	969	969	219	617	981	1040

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01/57275		Т		<u> </u>		i T		_	- _T -	_	_	_	_	_			_		u .		_	—)MF	Lene:	Ç	T /!	ÜŠ	01/006	<u> 567</u>
Top Hit Descriptor		nomo sapiens KIAA0440 protein (KIAA0440), mRNA	Homo sapiens KIAA0440 protein (KIAA0440), mRNA	Wi9U706.X1 NCI_CGAP_Kid12 Homo sapiens cDNA clone IMAGE;24006113'	601442674F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3846858 5	wk45b12.x1 NCI_CGAP_pr2z Homo sapiens cDNA clone IMAGE:2418335 3' similar to the Marker	SEMENOGELIN 1 PROTEIN PRECURSOR (HUMAN);	MK2-BT0590-090300-113-f09 BT0590 Homo saplens cDNA	Home sapiens glutamate receptor, ionotropic, kainate 1 (GRIK1) mRNA	Home sapiens mKNA for KIAA1411 protein, partial cds	India Septens michal for KIAA1411 protein, partial cds	yyouth it south the meight of the sapiens character in the sapiens char	Figure Saprens NOU1 protein (NOD1) gene, exons 1, 2, and 3	CONFIGURATION IN MICHAEL BY HOMO Sapiens CDNA clone IMAGE:3948557 5'	COZTISZONET I NIT MGC_81 Homo sapiens cDNA clone IMAGE:4293420 5'	20114272FF VIII NIH WGC 14 Homo sapiens cDNA clone IMAGE:3506508 5	S03134405E4 AIII 1400 Saplens cDNA clone IMAGE:3506508 5'	OVE 19 1400F INIT MGC_81 Homo sapiens cDNA clone IMAGE:4270921 5	nomo sapiens solute carrier family 6 (neurotransmitter transporter, L-proline), member 7 (SLC6A7), mRNA	Homo saplens solute carrier family 6 (neurotransmitter transporter 1-proline) member 7 (5) C64-7	601845089F1 NIH MGC_55 Homo sapiens cDNA clone IMAGE:4070302 5	AU118031 HEMBA1 Homo sapiens cDNA clone HEMBA1002773 5	001443151F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3847285 5'	780g07.x1 Soares_NSF_F8_gW_OT_PA_P_S1 Home saniens_ANA_All_ANA_CASAS_A	R:Q9VW35 Q9VW35 CG8743 PROTEIN.	MR3-SN0009-100400-106-b12 SN0009 Homo sapiens cDNA	Homo sapiens mRNA for secreted modular calcium-binding protein (smoot gene)	601155323F1 NIH_MGC_21 Homo sapiens CDNA clone IMAGE:3138989 5' qk24c08.y5 NCI_CGAP_Kid3 Homo sapiens cDNA clone IMAGE:1869902 5' similar to TR:Q64362 Q64362 FUSED TOES.	1000
Top Hit Database Source	LIV		- HOU	ES HOMAN	ES HUMAN	100	Т	HOMAN			HIMAN	7	HIMAN	HI INVAN	Т	Т	T				EST HUMAN	7	FOT LIMAN		7	T HUMAN	T	EST HUMAN	7
Top Hit Acession No.	7862125 NT	788040E NIT	768025	SERRED 4	4504116INT	1 0F-112 A 1826511 4	1.0E-112 RE078073 4	4504148 NT	1.0E-112 AB037832.1					Ī	Ī	T	T	111	110		T				1		Ī		
Most Similar (Top) Hit BLAST E Value	1.0E-112	1.0F-112	1 0F-112 AT	1 0E-112 BE	1.0E-112	1 OF-112	1 0F-112	1.0E-112	1.0E-112 A	1.0E-112	1.0E-112 N46046.1	1.0E-112 AF149773 1	1.0E-112 BE741666.1	1.0E-112 BF672815.1	1.0E-112 BE273103.1	1.0E-112 B	1.0E-112 BF574235.1	1.0E-112	1 05 42	1 0E-440 BE0400E0 4	1 0E-112 ALIA	1.0E-112 BE867635 1	1.0E-112 BE867635 1	1 OF 110 DE	4 05 440	1.0E-112/AW863327.1	1 0E-112 PE280470 4	1.0E-112 AI792	
Expression Signal	4.39	4.39	1.37	1-1	1.15	2.0 .	0.74	1.39	4.9	4.9	40.71	1.04	1.43	0.68	0.71	0.71	1.13	1.87	187	0.56	1.73	2.09	2.09	2. 7.	2 8 6	337	1 92	1.59	
ORF SEQ ID NO:		27118		27969	Ш	28770	29253	28827	30068	30089	31291	31730	31899	32134	32308	32309	32607	32995	32896	33507	33919	34694	34695	35849	36611	36796	36981	37053	
<u> </u>					15842	16115	16614	iI		- 1	- 1	ı	- [- [- 1	19304	19575	19921	19921	25120	20787	21547	21547	22444	23368	23548	23711	23779	
Probe SEQ ID NO:	1679	1679	2194	2512	3076	3355	3864	4565	4704	4704	5581	2986	6155	8369	6239	6236	6741	7236	7236	7729	8083	8856	8856	9793	10677	10868	11040	11109	ı

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dk24c08.y5 NCI_CGAP_Kid3 Hamo sapiens cDNA done IMAGE:1869902 5' similar to TR:Q64362 Q64362 qk24c08.y5 NC!_CGAP_Kid3 Homo sapiens cDNA clone IMAGE:1869902 5' similar to TR:Q64362 Q64362 qk24c08.y5 NCI_CGAP_Kld3 Homo sapiens cDNA clone IMACE:1869802 5' similar to TR:Q64362 Q64362 Homo sapiens ATP-binding cassette, sub-family B (MDR/TAP), member 4 (ABCB4), transcript variant B, Homo sapiens ATP-binding cassette, sub-family B (MDR/TAP), member 4 (ABCB4), transcript variant B, Homo sapiens UDP-N-acety-alpha-D-galactosamine.polypeptide N-acetygalactosaminytransferase 8 UI-H-BW1-ani-f-03-0-UI.s1 NCI_CGAP_Sub7 Homo sapiens cDNA clone IMAGE:3082876 3 Homo sapiens glutarinate receptor, ionotropic, N-methyl D-aspartate 2A (GRIN2A) mRNA Homo sapiens glutarnate receptor, ionotropic, N-methyl D-aspartate 2A (GRIN2A) mRNA ao95f01.x1 Schiller meningioma Homo sapiens cDNA clone IMAGE:1953625 3 ao95f01.x1 Schiller meningioma Homo saplens cDNA clone IMAGE.1953625 3* ao95f01.x1 Schiller meningioma Homo sapiens cDNA clone IMAGE:1953625 601469465F1 NIH_MGC_67 Homo seplens cDNA clone IMAGE:3872536 5 601152078F1 NIH_MGC_19 Homo saplens cDNA clone IMAGE.3508362 5' 601152078F1 NIH_MGC_19 Homo saplens cDNA clone IMAGE:3508362 5 EST371030 MAGE resequences, MAGE Homo saplens cDNA Homo saplens mRNA for putative RNA helicase, 3' end Homo saplens gene for cholecystokinin type A receptor, complete cds AU127214 NT2RP2 Homo sapiens cDNA clone NT2RP2000807 5' AU140291 PLACE2 Homo sapiens cDNA clone PLACE2000274 5' Top Hit Descriptor Homo sapiens hypothetical protein FLJ11006 (FLJ11006), mRNA PM0-CT0237-141099-001-h02 CT0237 Homo sapiens cDNA Homo saplens activating transcription factor B (B-ATF), mRNA domo sapiens activating transcription factor B (B-ATF), mRNA Homo sapiens P-glycoprotein (mdr1) mRNA, complete cds Human X-linked phosphoglycerate kinase gene, exon 8 Homo sapiens elF4E-transporter mRNA, complete cds (GalNAc-T8) (GALNT8), mRNA Single Exon Probes Expressed in Brain Homo sapiens PLP gene FUSED TOES EST_HUMAN EST_HUMAN EST_HUMAN EST_HUMAN EST_HUMAN HUMAN EST HUMAN Database Ϋ́ορ∐it Source EST_HUMAN HUMAN EST_HUMAN EST_HUMAN EST_HUMAN EST_HUMAN EST HUMAN EST EST F EST 5453562 NT 11525737 NT 9961249 NT 9961249 NT 1.0E-113 AW958960.1 ES 1.0E-113 8922819 NT Top Hit Acession 6006002 5453562 1.0E-112 AI792603.1 1.0E-112 AW377670.1 ટું 1.0E-112 AI792603.1 1.0E-112|AI792603.1 1.0E-113 AJ006976.1 AI365586. 1.0E-113 BE780858.1 AU140291.1 1.0E-113 BE262161.1 1.0E-113 BE262161.1 1.0E-113 AI365586. 1.0E-113 AI365586 1.0E-113 AF016535 M11965. (Top) Hit BLAST E .0E-113 1.0E-113 1.0E-113 1.0E-113 Aost Simila 1.0E-113 1.0E-113 1.0E-113 1.0E-113 1.0E-113 1.0E-113 1.0E-113 1.0E-113 1.59 1.92 1.92 Expression 1.02 4.4 2.16 7.66 1.92 0.91 2.97 1.47 2.62 0.68 0.68 0.8 0.78 0.56 Signal 0.46 ORF SEQ 37054 37085 37734 26966 27382 27551 28352 27913 28536 30300 30335 ΩNÖ 30336 31725 31806 31807 31975 32979 32980 31974 SEQ ID 23779 23806 24399 13688 14820 14279 15174 15892 25178 ğ 18205 18648 18621 18761 18843 19906 18843 18998 19906 18998 20242 Probe SEQ ID 11109 11810 11810 921 532 1932 2088 2456 4966 5008 5008 3127 5165 5979 ġ 5405 6064 5861 6224 98 6224 22 22 7573

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Top Hit Database Top Hit Descriptor	61/302700E4 NIII 1 1/00 12:11	Action 2017 Wild Midd. 19 Home sapiens cDNA clone IMAGE:3627554 5'	DOLEST 708F1 NIF MGC 19 Homo sepiens cDNA clone IMAGE:3627554 5	NO.1-F 10134-280600-021-d02 FT0134 Homo sapiens cDNA	Hano sapiens transmembrane protein 2 (TMEM2), mRNA	numan erg protein (ets-related gene) mRNA, complete cds	nomo sapiens KAN binding protein 7 (RANBP7), mRNA	Homo sepiens RAN binding protein 7 (RANBP7), mRNA	S0247740F1 VIII 1100 ULT NIH MGC 50 Homo sapiens cDNA clone IMAGE:3077322 5'	002247740F1 NIH_MGC_62 Homo sapiens cDNA clone IMAGE:4333280 5'	002247 FULT NIH MGC 62 Hamo sapiens cDNA clone IMAGE:4333280 5	THE STATE OF THE STATE OF THE SECTION OF THE SECTION OF THE STATE OF THE SECTION	hh81a09.y1 NCI_CGAP_GU1 Homo sapiens cDNA done IMAGE:2989176 5' similar to TE-Centers Consess	KIAA0584 PROTEIN;	Homo sapiens glutamate receptor, ionotropic, N-methyl D-aspartate 2A (GRIN2A) mRNA	Homo sapiens glutamate receptor, ionotropic, N-methyl D-aspartate 2A (GRIN2A) mRNA	601105529F1 NIH_MGC_15 Homo sepiens cDNA clone IMAGE:2988366 5' nc80b03.11 NCI_CGAP_GC1 Homo sepiens cDNA clone IMAGE:797060 5' similar to sMI_FEN2_111111111111111111111111111111111111	P39748 FLAP ENDONUCLEASE-1;	P39748 FLAP ENDONUCLEASE-11 Home sapiens cDNA clone IMAGE:797069 5' similar to SW:FEN1_HUMAN	9415c01.s1 Soares fetal liver spleen 1NFLS Homo sapiens CDNA circus INACE - 100000 01.1	gb:A21187 ALPHA-2-MACROGLOBULIN PRECURSOR (HUMAN):contains & https://doi.org/10.1001/10.0003	Homo saplens hypothetical protein FLJ20080 (FLJ20080), mRNA	Homo sapiens rhabdoid tumor deletion region protein 1 (RTDR1), mRNA	Homo sapiens nucleoporin-like protein 1 (NLP 1), mRNA	Homo sapiens mRNA for KIAA1276 protein, partial cds	Homo sapiens mRNA for KIAA1276 protein, partial cds	Human gene for catalase (EC 1.11.1.6) exon 2 mapping to chromosome 11, band p13	601869932F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4100214 5'	Home septens NOD1 protein (NOD1) gene, exons 1, 2, and 3 Human interference and the recent of the second of the se
Top Hit Database Source	FST HIMAN	EST HIMAN	TAN TOWN	TINGUIST TOTAL	LIV.	L L	L L	EST HIMANI	TST HIMAN	FST HIMMY	EST HIMAN	EST HIMAN		ESI HUMAN				EST HOMAN	EST_HUMAN		HUMAN						10.000	Т	
Top Hit Acession No.	BE382842.1	BE382842 1	BE772967 1	11420367	M21535 1	453007	5453007 NT	1.0E-113 AW500517 1	l	1			M630304 4	RODEOUS RODEOUS	1 N CO0000	700000	29200.1	1.000120.1	580720.1	7	1.1000	8923087 NT	TN627529 NT	00/90/3			T	T	
Most Similar (Top) Hit BLAST E Value	1.0E-113	1.0E-113	1.0E-113	1.0E-113	1.0E-113	1.0E-113	1.0E-113	1.0E-113	1.0E-113	1.0E-113	1.0E-113	1.0E-113	1 OF-113 A	1 0F-113	1 0F-113	1 0E-113 BC	1 OF 113 AA	2	1.0E-113 AA	100	1.00-	101-14	4 0 E 4 4 4	1 OF 114 AB	1 OF-114 A	1.0E-114 X04086 1	1.0E-114 RF206374 4	1.0E-114 AF1	1.0E-114 J03171.1
Expression Signal	3.06	3.06	0.93	4.1	0.45	0.81	0.81	0.61	0.55	0.55	1.83	2.84	284	1.39	1.39	281	132		1.32	œ	2 7	500	4 27	1.28	128	2.75	1.02	2.61	0.72
ORF SEQ ID NO:	34830	34831		35583	35683	35802	35803	36386	36387	36388	37011	37019	37020	31974	31975	37177	37393		37394	26045	26468	26712	27104	25491	25492	28537	28581	29377	29731
Exon SEQ ID NO:	Ш	j				22598	22598	23160	23161	23161	23737	23746	23746	18998	18998	23890	24082		24082	13409	13808	14039	14413	12871	12871	15893	15932	16745	17096
Probe SEQ ID NO:	8992	8992	9301	9730	9830	9950	9950	10514	10515	10515	11067	11076	11076	11181	11181	11227	11481		<u> </u>	830	1049	1290	1667	2807	2807	3128	3169	3997	4358

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Top Hit Descriptor	601122173F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3346099 5'	Homo sapiens sema domain, seven thrombospondin repeats (type 1 and type 1-like), transmembrane domain (TM) and short cytoplasmic domain, (semaphorn) 5A (SEMA5A) mRNA	Homo sapiens sema domain, seven thrombospondin repeats (type 1 and type 1-like), transmembrane domain (TM) and short cytoplesmic domain, (semaphorin) 5A (SEMA5A) mRNA	Homo saplens clathrin, heavy polypeptide-like 1 (CLTCL1), transcript variant 2, mRNA	H.sapiens isoform 1 gene for L-type calcium channel, exon 20	Homo sapiens sparc/osteonectin, cwcv and kazal-like domains proteoglycan (testican) (SPOCK) mRNA	Homo saplens HCMOGT-1 mRNA for sperm antigen, complete cds	AU134187 OVARC1 Homo sapiens cDNA clone OVARC1001444 5'	AU134187 OVARC1 Homo sapiens cDNA clone OVARC1001444 5'	Homo saplens NF2 gene	Homo saplens NF2 gene	Homo sapiens gamma-aminobutyric acid (GABA) A receptor, alpha 2 (GABRA2) mRNA	qy68d06.x1 NCI_CGAP_Bm25 Homo saplens cDNA clone IMAGE:2017163 3'	qy68d06.x1 NCI_CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2017163 3'	Human neural cell adhesion molecule CD56 mRNA, complete cds	Homo sapiens mRNA for KIAA0561 protein, partial cds	Homo sapiens mRNA for KIAA0561 protein, partial cds	7/69g12.x1 Soares_NSF_F8_9W_OT_PA_P_S1 Homo sapiens cDNA clone IMAGE:3526847 3' similar to TR:Q9UHN6 Q9UHN6 TRANSMEMBRANE PROTEIN 2	dq03f05.x1 NIH_MGC_2 Homo sapiens cDNA clone IMAGE:2846744 5'	Homo saplens tyrosine kinase pp60c-src (SRC) gene, exon 12 and partial cds	Human ceruloplasmin mRNA	601449752F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3853500 5'	Homo sapiens chromosome 21 segment HS21C027	MR0-HT0559-250200-002-d07 HT0559 Homo sapiens cDNA	ba73g12 y1 NIH_MGC_20 Homo saplens cDNA clone IMAGE:2906086 5' similar to gb:X17206 40S	KIBOSOMAL PRO I EIN S4 (HUMAN); gp:///ZUS2 Mouse LL.Kap3 protein mKNA Tram a repetitive etement, complete (MOUSE);	Homo sapiens calcium channel alpha1E subunit (CACNA1E) gene, exons 7-49, and partial cds, alternatively spliced
Top Hit Database Source	EST HUMAN	۲	۲	Ę	NT	LN.	N.	EST_HUMAN	EST_HUMAN	TN	F	TN	EST_HUMAN	EST_HUMAN	FN	TN	NT	EST HUMAN	EST_HUMAN	Ę	N	EST_HUMAN	F	EST_HUMAN		EST HUMAN	TN
Top Hit Acession No.	4 BE275324.1	4506880 NT	4506880 NT	9257201 NT	4 Z26298.1	4759163 NT	4 AB041533.1	4 AU134187.1	4 AU134187.1	4 Y18000.1	4 Y18000.1	4557600 NT	4 AI363139.1	4 AI363139.1	4 U63041.1	4 AB011133.1	4 AB011133.1	4 BF109832.1	4 AW327455.1	4 AF077754.1	4 M13536.1	4 BE870004.1	4 AL 163227.2	4 BE171984.1		4 BE302666.1	4 AF223391.1
Most Similar (Top) Hit BLAST E Value	1.0E-114	1.0E-114	1.0E-114	1.0E-114	1.0E-114	1.0E-114	1.0E-114	1.0E-114	1.0E-114	1.0E-114	1.0E-114	1.0E-114	1.0E-114	1.0E-114	1.0E-114	1.0E-114	1.0E-114	1.0E-114		1.0E-114	1.0E-114	1.0E-114	1.0E-114	1.0E-114		1.0E-114	1.0E-114
Expression Signal	1.05	1.26	1.26	76.0	0.64	0.62	96'0	1.02	1.02	8.3	8.3	2.62	1.92	1.92	3.81	6.93	6.93	0.49	6.83	2.8	1.03	1.08	1.5	0.7		3.15	1.71
ORF SEQ ID NO:	30400	30775	30776		31881	30531				32941	32942	33610	33889	33890			34506		L	33555			35927				36714
Exan SEQ ID NO:	17783	18119	18119	18308	18912	17974	19458	19826	19826	19868	19868	20487	20761	20761	21294	21357	21357	21770	21981	20433	22125	22687	22709	23085		23378	23472
Probe SEQ ID NO:	5064	5315	5315	5508	6134	8689	6977	7139	7139	7182	7182	7792	8067	8067	8602	9865	8665	9081	9314	9363	9448	10039	10061	10439		10687	10789

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
10789	23472	36715	1.7.1	1.0E-114	114 AF223391.1	N	Homo sapiens calcium channel alpha1E subunit (CACNA1E) gene, exons 7-49, and partial cds, alternatively spliced
11145	23812	37094	8	1.0E-114	114 AV733454.1	EST HUMAN	AV733454 cdA Homo saplens cDNA clone cdABA08 5'
11145	23812	37095	3	1.0E-114	114 AV733454.1	EST_HUMAN	AV733454 cdA Homo sapiens cDNA clone cdABA08 5'
11796	24386	37719	1.7	1.0E-114	4758673	7	Homo sapiens LIM HOX gene 2 (LHX2) mRNA
11834		37759	1.32	1.0E-114	11526317 NT	FZ	Homo sapiens clathrin, heavy polypeptide-like 1 (CLTCL1), mRNA
12334			3.42	1.0E-114	11418041 NT	LZ	Homo sapiens TNF-inducible protein CG12-1 (CG12-1), mRNA
12577	24902		4.93	1.0E-114	11034850 NT	FZ	Homo sapiens hypothetical protein (DJ1042K10.2), mRNA
12577	24902	30999	4.93	1.0E-114	11034850 NT	FZ	Homo sapiens hypothetical protein (DJ1042K10.2), mRNA
21	12849		2.89	1.0E-115	4758111 NT	ΤN	Homo sapiens HLA-B associated transcript-1 (D6S81E) mRNA
127	12942		2.03	1.0E-115	4505938 NT	17	Homo sapiens polymerase (RNA) II (DNA directed) polypeptide A (220kD) (POLR2A) mRNA
131	12946		2.33	1.0E-115	4557887 NT	FZ	Homo sapiens keratin 18 (KRT18) mRNA
286	13092	25733	2.23	1.0E-115	115 AW804759.1	EST_HUMAN	QV4-UM0094-300300-156-b08 UM0094 Homo sapiens cDNA
503	13307		00 0	1 OF 115	1 0E-115 41330206 1	MAN LI FOR	qt06f01.x1 NCL_CGAP_GC4 Homo saplens cDNA clone IMAGE:1946809 3' similar to TR:000536 000536
220	1		99:5	1.00	T	NICANOI C	MONTH AND COMPONENT OF THE PARTY OF THE PART
623	13307	25940	0.99	1.0E-115	15 AI339208.1	EST_HUMAN	qruoto 1 x1 NCL_CGAP_GC4 Homo sapiens cDNA clone IMAGE:1946809 3' similar to TR:000536 000536 TTF-I INTERACTING PEPTIDE 5;
769	13541	26201	1.36	1.0E-115	5174702 NT	T/L	Homo saplens transforming growth factor beta-activated kinase-binding protein 1 (TAB1), mRNA
769	13541	26202	1.36	1.0E-115	5174702 NT	卢	Homo saplens transforming growth factor beta-activated kinase-binding protein 1 (TAB1), mRNA
771	13543		40.4	1.0E-115	4503794 NT	LN T	Homo sapiens ferritin, heavy polypeptide 1 (FTH1) mRNA
1552			1.26	1.0E-115	115 AF229180.1	NT	Homo sapiens alpha-aminoadipate semialdehyde synthase mRNA, complete cds
1552	14298	26986	1.26	1.0E-115	15 AF229180.1	LN	Homo sapiens alpha-aminoadipate semialdehyde synthase mRNA, complete cds
1833	14572	27285	1.01	1.0E-115	15 U78027.1	LN.	Homo sapiens Bruton's tyrosine kinase (BTK), alpha-D-galactosidase A (GLA), L44-like ribosomal protein (L44L) and FTP3 (FTP3) genes, complete cds
2078	L		96.0	1.0E-115	-	LN	Homo sapiens KIAA0442 mRNA, partial cds
2298	15023		2.13	1.0E-115	115 AF231124.1	LN	Homo sapiens testican-1 mRNA, complete cds
2855	15623		1.39	1.0E-115	115 AW804759.1	EST_HUMAN	QV4-UM0094-300300-156-b08 UM0094 Homo sapiens cDNA
3113			6.22	1.0E-115	15 AJ245922.1	FZ	Homo sapiens mRNA for alpha-tubulin 8 (TUBA8 gene)
3113	!		6.22	1.0E-115		TN	Homo sapiens mRNA for alpha-tubulin 8 (TUBA8 gene)
3465	16221	28875	1.6	1.0E-115		NT	Homo sapiens partial TTN gene for titin
4021	16767	29397	3.67	1.0E-115	115 AB002348.2	NT	Homo sapiens mRNA for KIAA0350 protein, partial cds
4369	17107		3.27	1.0E-115		LN	Homo sapiens sir2-like 3 (SIRT3), mRNA
4403			3.6	1.0E-115	4758279 NT	۲N	Homo sapiens EphA4 (EPHA4) mRNA
4628	17363	29996	2.64	1.0E-115	115 AL096857.1	NT	Novel human mRNA from chromosome 1, which has similarities to BAT2 genes

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VO (01/57275			_	7	<u> </u>	_				_	_							n~	Pant	. 11	₹	7 ku	,;° •4	m.	P	СŢ	/US0	1/00	667
Single Exon Probes Expressed in Brain	Top Hit Descriptor		Novel human mRNA from chromosome 1, which has similarities to BAT2 renes	Homo sepiens chromosome 21 segment HS21CO68	Homo sapiens chromosome 21 segment HS21C068	EST382416 MAGE resequences, MAGK Hamo septens cDNA	602119346F1 NIH_MGC_56 Homo sapiens cDNA clone IMAGE-4278738 F1	Homo saplens similar to ER to nucleus signalling 1 (H. sapiens) (LOC63433) mRNA	Homo septens similar to ER to nucleus signalling 1 (H. sapiens) (LOC63433), mistro- au64g01.x1 Schneider fetal brain 00004 Homo septens cDNA clone IMAGE-3519588 3' and the nucleus	DYNAMIN-1 (HUMAN); au64901.x1 Schneider fetal brain 00004 Homo sariens cDNA clans INAACE-DEAGES 21.	DYNAMIN-1 (HUMAN);	Homo sapiens sperm surface protein (HSS), mRNA	Homo saplens sperm surface protein (HSS), mRNA	Homo sapiens similar to ribosomal protein S26 (H. sapiens) (LOC63436), mRNA	Homo saplens KIAA0054 gene product; Helicase (KIAA0054), mRNA	Indmo sapiens KIAA0054 gene product; Helicase (KIAA0054), mRNA yd86b08.r1 Soares fetal liver spleen 1NFLS Home sentens of NA also analysis.	SP:DPOG_YEAST P15801 DNA POLYMERASE GAMMA	oz31806.x1 Soares_total_fetus_Nb2HF8_9w Homo sapiens cDNA clone IMAGE 1678814.3	oz31806.x1 Soares_total_fetus_Nb2HF8_9w Homo sapiens cDNA clone IMAGE-1676914.3*	norno sapiens mRNA for KIAA0995 protein, pertial cds	NCO-E 1 0081-130700-011-G01 ET0081 Homo sapiens cDNA	Homes 2011-0001-011-G01 ET0081 Homo sapiens cDNA	Front School Edition Control Initiation factor 4B (EIF4B), mRNA	UNITED STATE AND SECTION OF SECTION SECTION OF SECTION	numan mKNA for KIAA0338 gene, partial cds	runnan mKNA tor KIAA0338 gene, partial cds	qgəseyəxi soares NFL_T_GBC_S1 Homo sepiens cDNA clone IMAGE;1843336 3'	#12407.x1 NCI_CGAP_CLI_Homo sepiens cDNA clone IMAGE:1843336 3* PHENY AI ANY TENA COURT. IT. HOMO Sepiens cDNA clone IMAGE:2118036 3* similar to TR:016729 016479	xx3zf08.x1 NC_CGAP_Ut1 Homo sepiens cDNA clone IMAGE: 2830230 21 cityal na canana	P10463 CALCYPHOSINE; Hamo sapiens UDP-glucose:glycoprotein glucosyfitansferase 1 (HLIGT1) mbn.A
igie Exon Pri	Top Hit Database Source		ž !	F.	NT 101	EST HUMAN	EST HUMAN		TO LO	LONG L	ES HUMAN		- L				EST_HUMAN	EST HUMAN	EST HUMAN	FOT DITAME		LONG LO	EST HIMAN	NOW DIE		T LI MANNI	T	T		HOMAN
ā	Top Hit Acession No.	A1 008087 4		AL 100200.2	AL 105208.2	AV 97 0335.1	200	11425128 NT	A1928799 1	A 1028700 A	1478798 NIT	14.20700N	11426/36 N	7664992 NIT	7664999 NIT	2001007		076508.1	Ī	T	T	4777	-382029.1		T					0279
	Most Similer (Top) Hit BLAST E Value	1 0F-115	1 OF-14R	4 00 4 4 5	1 OF 148	1 0F-445	4 OF-145	1.0E-115	1.0E-115	4 OF-448	10E-115	1 0F-115	1.0E-115	1.0E-115	1.0E-115	O T	1.0E 115 100/4.1	1.0F-115.A	1.0E-115 AB023212 1	1.0E-115 BE830187 4	1.0E-115 BE830187 1	1.0E-115	1.0E-115 BI	1.0E-115 AB002336 1	1.0E-115 A	1.0E-115 AI221878 1	1.0E-115 AI221878.1	1.0E-115 A!	1 0E-115 AW 671614 4	1.0E-115
	Expression Signal	2.64	3.51	3.54	1,62	0.78	98	1.96	1.34	1.34	0.97	0.97	9.87	2.04	2.04	283	1 54	1,54	8.22	13.71	13.71	2.15	9.0	2.25	2.25	-	-	0.82	7.62	1.33
	ORF SEQ ID NO:	29997		L					31313	31314	31916	31917	32061	32198	32189	32521	32835	32836	33068	33885	33886	34548	35522	35743	35744	36284	36285	36293	36549	36797
\vdash	<u> </u>	17363	17578	17578	18069	L	18253	1 1	18400	18400				19202	19202	19497	19864	19864	19991	20754	20754	21404	22327	22549	22549	23064	23064	23072	23310	23549
	Probe SEQ ID NO:	4628	4848	4848	5263	5338	5454	5454	5604	5604	6168	6168	6302	8434	8434	6835	7178	7178	7308	888	880	8712	2/2	8898	888	10418	10418	10426	10617	10869

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Table 4

W	0 01/57275		_7	_	_	_												b						PC'	Γ/(US	01	/00)667
Single Exon Probes Expressed in Brain	Top Hit Descriptor	hq54c10.x1 NCI_CGAP_Pan3 Homo sapiens cDNA clone IMAGE:3123186 3' similar to TR:088378 O88378	Ing54c10.x1 NCI_CGAP_Pan3 Homo sapiens cDNA clone IMAGE:3123186 3' climitar to Trocacase access	PRP4 PROTEIN KINASE HOMOLOG;	Homo sapiens calcium channel, voltage-dependent, alpha 1E subunit (CACNA1E) DNA	601111744F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3352379 5	HV3-U 10065-280300-137-h12 OT0065 Homo sapiens cDNA Homo sapiens glutathlone S-transferase theta 2 (GSTT2) and clutathlone S-transferance the 4-4-4-2007	genes, complete cds	OU1121347F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:2988875 5'	Homo sapiens synaptojanin 1 (SYNJ1), mRNA	nomo sapiens synaptojanin 1 (SYNJ1), mRNA	nomo sapiens pericentrin (PCNT) mRNA	Homo sapiens pericentrin (PCNT) mRNA	Human apolipoprotein B-100 (apoB) gene, exons 17 and 18	Human apolipoprotein B-100 (apoB) gene, exons 17 and 18	Homo Septens protein phosphatase, EF hand calcium-binding domain 1 (PPEF1) mRNA Human olfactory receptor olfr17-201-1 (OR17-201-1) can a clear and a c	offactory receptor pseudo_olfr17-01 (OR17-01) pseudogene, complete cds	Homo sapiens mRNA for KIAA0790 protein, partial cds	601513337F1 NIH_MGC_71 Homo saplens cDNA clone IMAGE:3914600 5'	riomo saplens DiGeorge syndrome critical region, centromeric end	Homo saplens DiGeorge syndrome critical region, centromeric and	Flomo sapiens sodium phosphate transporter 3 (NPT3) mRNA	and 1950/10485-010 B 1735 Homo sapiens cDNA qui 1960-107 CGAP_Lu5 Homo sapiens cDNA clone IMAGE:1898695 3' clmilar to contains element	Ť	similar to	NASE, MITOCHONDRIAL PRECURSOR .	Ī		MR2-HT0379-210200-102-b04 HT0379 Home saniens - DNA
gle Exon Pro	Top Hit Database Source	EST HIMAN		EST HUMAN	Z	EST HUMAN	NAMOUNAN HOLINAN	N.	NAMOU TO LA			1	H	2 12				T	HOMAN			HIMAN	T -		EST HIMAN			T HIMAAN	П
EN I	Top Hit Acession No.	BE045890.1		00.00	4502528	W884375 1			7007	4507334 NT	5174478 NT	5474470 NT	1		453044						E0940E4	5000					Τ	T	
	Most Similar (Top) Hit BLASTE Value	1.0E-115	1 05-145	10F-14R	1 OF-115	1.0E-115/	1 0F-115	1.0E-116	1.0E-116	1.0E-116	1.0E-116	1.0E-116	1.0E-116 M10824 4	1.0E-116 M	1.0E-116	7	1.0E-116 D78308.1	1.0E-116 AB018333.1	1 0F-116 77570 4	1.0E-116 7	1.0F-116	1.0E-116 AI907096.1	1.0E-116 AI302062.1		1.0E-116 W42822.1	1.0E-116 AB046856 1	1.0E-116 AB	1.0E-116 BE	1.0E-116 BE158133.1
	Expression Signal	1.54	1.54	227	2.53	1.83	2.18	1.98	2.21	1.76	2.55	2.55	2.6	2.6	1.95	40,7	284	1.53	4.87	4.87	2.43	1.67	0.87		4.4	1.8	1.8	0.76	1.55
	ORF SEQ ID NO:	37174	37175	37281		37767		25969	26216		27447	27448	27552	27553	27767		27915	28183	28582	28583	29713	30156	30627		31619	31862	31863	31934	
	Exon SEQ ID NO:	23888	23888	23981	24366	24426	24481	13341	13555	13609	14726	14726	15585	15585	15030	15063	15176	15533	15934	16934	17084	17534	18005		18674	18895	18895	18961	19189
	Probe SEQ ID NO:	11225	11225	11374	11775	11842	11920	529	78	833	1980	1990	2090	2090	2305	2340	2458	2738	3171	3171	4345	4803	5197		8880	6117	6117	6184	6421

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in cools Lypressed in Brain	Top Hit Descriptor		C02944 Human heart cDNA (YNakamura) Homo sapiens cDNA clone 3NHOnsez	AV716314 DCB Hamo saplens cDNA clone DCBBCG06 5	EST62685 Jurket T-cells V Homo sapiens cDNA 5' end similar to similar to keretin 2	ES 162685 Jurkat T-cells V Homo sapiens cDNA 5' end similar to similar to keratin 2	CM-B1043-090299-075 BT043 Homo sapiens cDNA	601338258F1 NIH_MGC_53 Homo saplens cDNA clone IMAGE:3880680 5' qh09c05.x1 Soares_NFL_T_GBC_S1 Homo saplens cDNA Alone IMAGE:3880680	gb:X53741_ma1 FIBULIN-1, ISOFORM A PRECURSOR (HI IMANI).	Homo saplens laminin, alpha 2 (merosin, congenital muscular dystrophy) // AMA 2) BNA	Homo sapiens partial mRNA for xylosytransferase I (XT-I gene)	Homo sapiens partial mRNA for xylosytransferase I (XT-I gene)	QV4-HT0401-281299-063-c09 HT0401 Homo sapiens cDNA	CM2-CT0482-300800-349-e06 CT0482 Homo sapiens cDNA	CE01765; Calco International Mome Septens CDNA clone IMAGE:1936102 3' similar to WP:B0495.7	XEZ778914110 at 782 / see	Home and the control of Synonym: melz) Home saplens cONA clone DKFZp762L1110 5	Journo suprens acetyl-Coenzyme A carboxylase elpha (ACACA), mRNA	wus musculus tragile-X-related protein 1 (Fx1h) gene, exons 13a through 15	riomo sapiens lymphocyte activation-associated protein mRNA, complete cds	ruman apolipoprotein B-100 (apoB) gene, exon 10	ES 1309/69 MAGE resequences, MAGE Homo saplens cDNA	ODAZCTI.ST Scares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:1578548 3'	protein [29]	Homo sapiens collagen, type IV, alpha 5 (Albort and and and and and and and and and and	KFZp434C1120 r1 434 (sunonum Hees) Land	H.sapiens mRNA for TPCR16 brotein						ein 1 (KIAA0705), mRNA	Ī
OI HIDY SIG	Top Hit Database Source		EST HUMAN	EST HUMAN	EST HUMAN	EST HUMAN	ES HUMAN	T	HUMAN			1	7	HOMAN	EST_HUMAN	EST HUMAN	T					Т	T	EST_HUMAN		EST_HUMAN D							T HI IMAN	7
	Top Hit Acession No.	0000444	AV748344.4		T				AIZ16352.1	11418646 NT		T	T			AL134889.1	26636	F124393 1	T	Ī			T		8659564 NT	1.1		39670.1 NT	F134304.2 NT	F134304.2 NT		ED42464	2	1
	Most Similar (Top) Hit BLAST E Value	1 0F-118	1 0F-11R	1.0F-116	1.0E-118								_		1			1.0E-117	.⊥~		1.0E-117 A	1.0E-117 AA978114 1		1.0E-117 AA316723.1	1.0E-117	1.0E-117 AL042120.1	1.0E-117 X89670.1	1.0E-117 X89670.1	1.0E-117 AF134304.2	1.0E-117 AF134304.2	1.0E-117 A	1.0E-117	1.0E-117 BE730508.1	
	Expression Signal	1.19	5.74	1.37	1.37	0.98	1.66	-	1 52	0 74	0.74	0.78	2.4		2.85	1.86	1.67	96.0	1.02	1.51	25.	1.64		2.1	2.03	2.95	1.27	1.27	10.03	10.03	3.57	0.73	3.01	
	ORF SEQ ID NO:	32572	32855	34101	34102	34209	34674	34837	35411	36036	36037	36104	36519		37025		25959	26474	27188	27274	27674	28674		29355	22074	28905	30043	30044	20118	30720	30233	30471	30699	
	Exan SEQ ID NO:	19544	19790	20961			21528	21687	22228	22818	22818	22894	23281	1	25267	/0707	13328	15559	14489	14562	14936	16024	-	16720	17070	17470	17/00	17/04	12/27		1/01	17854	18070	
	Probe SEQ ID NO:	6844	7102	8267	8267	8378	8836	8997	9573	10170	10170	10248	10586	14000	12625	1	8	1055	1747	1823	2208	3282	į	4340	4538	4674	4674		1			5136	- 1	
											_	!						_1			_1				Т.	L	L		L		丄		لـ	

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Top Hit Descriptor	EST26111 Cerebellum II Homo sapiens cDNA 5' end similar to similar to zinc finger domain	Homo sapiens nuclear hormone receptor (shp) gene, 3' end of cds	Homo saplens nuclear hormone receptor (shp) gene, 3' end of cds	AV717788 DCB Homo saplens cDNA clone DCBBAE01 5	AV717788 DCB Hamo sapiens cDNA clone DCBBAE01 5'	wp86b07.x1 NCI_CGAP_Brn25 Homo sapiens cDNA clone IMAGE:2488629 3' similar to TR:075065 075065 KIAA0477 PROTEIN.;	Homo sapiens neural cell adhesion molecule 1 (NCAM1), mRNA	Homo sapiens neural cell adhesion molecule 1 (NCAM1), mRNA	CM-BT043-090299-075 BT043 Homo sapiens cDNA	CM-BT043-090299-075 BT043 Homo saplens cDNA	Human gene for very low density lipoprotein receptor, exon 11	601569317F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3843748 5'	Homo sapiens gamma-aminobutyric acid type B receptor 2 (GABABR2) mRNA, complete cds	Homo sapiens Drosophila Kelch like protein (DKELCHL), mRNA	Human mRNA for KIAA0191 gene, partial cds	Homo sapiens protein (peptidyl-prolyl cis/trans isomerase) NIMA-interacting 1 (PIN1), mRNA	Homo sapiens protein (peptidy/-prolyl cis/trans isomerase) NIMA-Interacting 1 (PIN1), mRNA	Homo sapiens mRNA for MEGF8, partial cds	Homo sapiens mRNA for MEGF8, partial cds	601186203F1 NIH_MGC_8 Homo saplens cDNA clone IMAGE:3544296 5'	Homo saplens ATP-binding cassette, sub-family A (ABC1), member 3 (ABCA3), mRNA	Homo sapiens ATP-binding cassette, sub-family A (ABC1), member 3 (ABCA3), mRNA	Homo sapiens HSPC151 mRNA, complete cds	DKFZp4341056_r1 434 (synonym: htes3) Homo sapiens cDNA clone DKFZp4341056 5'	Homo sapiens hypothetical protein (DJ328E19.C1.1), mRNA	Homo sapiens sine oculis homechox (Drosophila) homolog 1 (SIX1) mRNA	601281947F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3604019 5'	601281947F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3604019 5'	601281947F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3604019 5'	EST363799 MAGE resequences, MAGB Homo sapiens cDNA	Human breakpoint cluster region (BCR) gene, complete cds	Human breakpoint cluster region (BCR) gene, complete cds	Homo saplens PRKY exon 7
Top Hit Database Source	EST_HUMAN	TN	١	EST_HUMAN	EST_HUMAN	EST HUMAN	Ί.	ΝŢ	EST_HUMAN	EST_HUMAN	F	EST_HUMAN	LN	TN	TN	N.	F	LN	NT	EST_HUMAN	ΤN	TN	N	EST_HUMAN	IN	IN	EST_HUMAN	EST_HUMAN	EST HUMAN	EST_HUMAN	N	NT	\ L
Top Hit Acession No.	AA323348.1	L76571.1	.76571.1	1/717788.1	1V717788.1	N950145.1	10834989 NT	10834989 NT	1904151.1	1.0E-117 Al904151.1	716524.1	3E733922.1	AF099033.1	11420222 NT	383776.1	11424835 NT	11424835 NT	1.0E-117 AB011541.1	1.0E-117 AB011541.1	3E269856.1	4501848 NT	4501848 NT	NF161500.1	AL045854.1	7657016 NT	5174680 NT	3E389705.1	1.0E-118 BE389705.1	1.0E-118 BE389705.1	1.0E-118 AW951729.1	J07000.1	J07000.1	/13932.1
Most Similar (Top) Hit BLAST E Value	1.0E-117 AA	1.0E-117	1.0E-117 L7	1.0E-117 AV	1.0E-117 AV	1.0E-117 AR	1.0E-117	1.0E-117	1.0E-117 AII	1.0E-117	1.0E-117 D1	1.0E-117 BE	1.0E-117 AF	1.0E-117	1.0E-117 D83776.1	1.0E-117	1.0E-117	1.0E-117	1.0E-117	1.0E-117 BE	1.0E-117	1.0E-117	1.0E-118 AF	1.0E-118 AL	1.0E-118	1.0E-118	1.0E-118 BE	1.0E-118	1.0E-118	1.0E-118	1.0E-118 U07000.1	1.0E-118 U07000.1	1.0E-118 Y13932.1
Expression Signaí	0.86	5.01	5.01	1.75	1.75	3.38	2.29	2.29	0.56	0.56	2.25	2.07	2.9	1.11	1.77	2.68	2.68	3.32	3.32	14.73	2.02	2.02	5.98	2.13	5.67	96.0	2.04	2.04	2.04	1.68	2.61	2.61	4.64
ORF SEQ ID NO:	30574	33108	33109	33212	33213	33699	34039	34040	34141	34142	35033	35532	35697	36345	36691	36891	36892	37196	37197		37501	37502	25530	25557	25922	26328	27693	27694	27695	\	28189	28190	
SEQ ID NO:		L		•	20122	20573	20904	20904	21004	21004	l	1	25127	1	23449	1	!	23905	23905	23976	24186	24186	١.	12920	13288	15555	14955	14955	<u>l</u> _	15054	15450	١.	15867
Probe SEQ ID NO:	6860	7350	7350	7446	7446	7878	8210	8210	8310	8310	9199	9896	9846	10469	10765	10964	10964	11243	11243	11369	11587	11587	88	94	504	894	2227	7227	2227	2329	2744	2744	3102

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Top Hit Descriptor	qp01f05.x1 NCI_CGAP_Kid5 Homo sepiens cDNA clone IMAGE:1916769 3'	qp01f05.x1 NCI_CGAP_Kid5 Homo sapiens cDNA clone IMAGE:19167693'	Human mRNA for ribosomal protein, complete cds	Homo sapiens KIAA0478 gene product (KIAA0478), mRNA	Homo sapiens calcium channel gamma 4 subunit (CACNG4) gene, exon 3	Homo sapiens calcium channel gamma 4 subunit (CACNG4) gene, exon 3	Homo sapiens reelin (RELN), mRNA	Homo saplens reelin (RELN), mRNA	Human cystic fibrosis transmembrane conductance regulator (CFTR) gene, exon 4	Homo sapiens T-box 4 (TBX4), mRNA	Homo sapiens T-box 4 (TBX4), mRNA	Homo sapiens transient receptor potential channel 5 (TRPC5), mRNA	Homo sapiens latent transforming growth factor beta binding protein 2 (LTBP2) mRNA	Homo saplens latent transforming growth factor beta binding protein 2 (LTBP2) mRNA	DKFZp43400127_r1 434 (synonym: htes3) Homo sapiens cDNA clone DKFZp43400127 5'	DKFZp43400127_r1 434 (synonym: htes3) Homo sapiens cDNA clone DKFZp43400127 5'	Homo saplens chromosome 2 open reading frame 3 (C2ORF3), mRNA	602141620F1 NIH_MGC_46 Homo sapiens cDNA clone IMAGE:4302749 5'	601469159F1 NIH_MGC_67 Homo sapiens cDNA clone IMAGE:3872247 5	QV0-BT0263-090200-097-h03 BT0263 Homo sapiens cDNA	QV0-BT0263-090200-097-h03 BT0263 Homo saplens cDNA	zx88d07,r1 Soares_NhHMPu_S1 Homo saplens cDNA clone IMAGE:811789 5'	208407.1 Soares_NhHMPu_S1 Homo sapiens cDNA clone IMAGE:811789 5	Human mRNA for KIAA0383 gene, partial cds	Human mRNA for KIAA0383 gene, partial cds	Homo sapiens latent transforming growth factor beta binding protein 2 (LTBP2) mRNA	Homo sapiens latent transforming growth factor beta binding protein 2 (LTBP2) mRNA	601144863F2 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3160502 5'	DKFZp586K1824 r1 586 (synonym: hute1) Homo sapiens cDNA clone DKFZp586K1824	Homo sapiens hypothetical protein (DJ328E19.C1.1), mRNA	DKFZp5470017_r1 547 (synonym: hfbr1) Homo sapiens cDNA clone DKFZp5470017 5'	7n17e09.x1 NCI_CGAP_Brn23 Homo sapiens cDNA clone IMAGE:3564785 3' similar to SW:ZP3A_HUMAN P21754 ZONA PELLUCIDA SPERM-BINDING PROTEIN 3A PRECURSOR;
Top Hit Database Source	EST_HUMAN	EST_HUMAN	뉟	N	IN	IN	L.	LN	L	LZ	F	N	N L	F	EST_HUMAN	EST_HUMAN	LN	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	LN	LN	LN	IN	EST_HUMAN	EST_HUMAN	F	EST_HUMAN	EST_HUMAN
Top Hit Acession No.	8 Al347694.1	18 AI347694.1	IB D23660.1	11425793 NT	IB AF142624.1	18 AF142624.1	11422054 NT	11422054 NT	I8 M55109.1	11425900 NT	11425900 NT	11420764 NT	4557732 NT	4557732 NT	I8 AL043761.1	18 AL043761.1	11431050 NT	8 BF685272.1	8 BE781223.1	BE062855.1	8 BE062855.1	8 AA443024.1	18 AA443024.1	8 AB002381.1	8 AB002381.1	4557732 NT	4557732 NT	18 BE263134.1	18 AL048474.2	7657016 NT	IB AL138321.1	18 BF195407.1
Most Similar (Top) Hit BLAST E Value	1.0E-118	1.0E-118	1.0E-118	1.0E-118	1.0E-118	1.0E-118	1.0E-118	1.0E-118	1.0E-118	1.0E-118	1.0E-118	1.0E-118	1.0E-118	1.0E-118	1.0E-118	1.0E-118	1.0E-118		1.0E-118	1.0E-118			1.0E-118			1.0E-118	1.0E-118	1.0E-118	1.0E-118	1.0E-118	1.0E-118	1.0E-118
Expression Signal	4.67	4.67	4.77	6.0	1.87	1.87	0.94	0.94	1.24	0.83	0.83	1.49	4.1	1.44	1.12	1.12	5.63	0.86	2.17	6.58	6.58	1.37	1.37	1.01	1.01	2.08	2.08	4.95	0.55	1.53	96'0	1.88
ORF SEQ ID NO:	28605	28606	29439	30028	30800	30801	31247	31248	31395	31491	31492	31578	32368				33264	33512	33693	34116	34117	34122	34123	34404		34455	34456	34767	34806	35327	35731	36134
Exon SEQ 1D NO:	15953	15953	16811	17393	18140	18140	18340	18340	18477	18563	18563	18640	19355	19355	19689	19689	20172	20397	20567	20976	20976	20982	20982	21285	21265	21313	21313	21624	21655	22146	22538	22922
Probe SEQ ID NO:	3190	3190	4067	4659	5337	5337	5543	6543	5684	5772	6772	5853	6592	6592	6997	6997	7500	7733	7872	8282	8282	8288	8288	8573	8573	8621	8621	8933	8964	9493	9886	10274

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Origine Exon Probes Expressed in Brain	Top Hit Descriptor	xs48a10.x1 NCI_CGAP_Kid11 Homo sepiens cDNA clone IMAGE:2772666 3' similar to	SW:BODG_HUMAN 075936 GAMMA-BUTYROBETAINE,2-0XOGLUTARATE DIOXYGENASE	Ur-rt-BW0-aio-a-07-0-UI.s1 NCI_CGAP_Sub6 Homo sapiens cDNA clone IMAGE:272977233	Not is 1929' i Nirt Midd. 46 Homo sapiens cDNA clone IMAGE:4302798 5' Homo aspiens protein with polyglutamine repeat, calcium (ca2+) homeostasis endoplasmic reticulum provien	(ERNTRO 13-21), mRNA EST186814 HCC cell line (matastasis to liver in mouse) II Homo senione china Erad in in	chain 1, cytoplasmic	601499514F1 NIH_MGC_70 Homo saplens cDNA clone IMAGE:3901563 5'	001499514F1 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3901563 5'	QV0-Umuuus1-120900-385-b12 UM0091 Homo sapiens cDNA	GVC-UNIOUST - IZUSUU-385-b12 UM0091 Homo saplens cDNA	Homo explicits cliented crammel CLC4 (CIC4) mRNA, complete cds	House Septens CGF-105 protein (LOC51011), mRNA	Homo saplens mrNA for KIAA0930 protein, partial cds	on 10 beginns infloatrencial protein FLJ10052 (FLJ10052), mRNA on 10b05.s1 NCI_CGAP_Lu5 Homo sepiens cDNA clone IMAGE:15562413' similar to WP Endex o	CE01214;	Homo sapiens glutamate receptor, lonotropic, kainate 1 (GRIK1) mRNA	AU133389 N12RP4 Homo sapiens cDNA clone NT2RP4001991 5'	numan neurombromin (NF1) gene, complete cds	AVEN 27. 250800-018-506 NN0073 Homo saplens cDNA	DKEZAZEMAZA 1 TOTO Sapiens cDNA clone GKCDHB03 5	DKFZp762M0710_r1 762 (smonym: hmel2) Homo sapiens cDNA clone DKFZp762M0710 5	4b77c09.x1 Soares fetal heart NbHH19W Home sapiens cDNA clone IMAGE-1768-28 of the control of th	SWIK1CJ_MOUSE P02535 KERATIN, TYPE I CYTOSKELETAL 10:	Homo sapiens matrix metalloproteinase 28 (MMP28) mRNA, complete cds	Homo sapiens matrix metalloproteinase 28 (MMP28) mRNA, complete cds	Im23/10 x1 Soares_NFL_T_GBC_S1 Homo sepiens cDNA clone IMAGE:2157451 3.	Human cries/fps proto-oncogene	ES1386296 WAGE resequences, MAGM Homo sapiens cDNA	OUTSEZUOSET INIT, MISC, 7 Homo sepiens cDNA clone IMAGE:3946081 5' 801280564F1 NIH_MGC_39 Homo sepiens cDNA clone IMAGE:3625526 F'
gie Exori Pic	Top Hit Database Source	1	ES HUMAN	EST HIMAN			EST_HUMAN	EST HUMAN	EST HUMAN	FOT LINAN		Į.	FX		Log House	ES COMAN	FOR LINE	I S I S I S I S I S I S I S I S I S I S	EST LIMAN	ENT LIMAN	EST HIMAN	EST HUMAN	Γ^{-}	ESI HUMAN		Т	HOMAN		EST HUMAN	П
5	Top Hit Acession No.	1 0F-118 AW271280 4	1		1,50	00000	1.0E-118 AA315007.1			T		5607	1.0E-119 AB023147 1	2205	018780 4	4504440	133300 4	Ţ	T	T	34903.1	34903.1		T	T	T];	T	П
	Most Similar (Top) Hit BLAST E Value	1 0F-118	1 0F-118	1.0E-118	1.0E-118	200	1.0E-118	10F-118	1.0E-118 BF093687 4	1.0E-118 BF093687 1	1.0E-119 AF170492.1	1.0E-119	1.0E-119 A	1.0E-119	1.0F-119 AA	1 0F-110	1.0E-119 AL	1.0E-119 M89914 1	1.0E-119 BE936121 1	1.0E-119 AV693731 1	1.0E-119 AL	1.0E-119 AL1:	1 0E-110 A 1150 202 4	1 0F-119 AF315683 4	1 0F-119 AF315692 4	1 OF-110 A14787974	1 0E-119 Y08202 1	1 0F-119 AMOZA24	1.0E-119 BE796614 4	1.0E-119 BE615150.1
	Expression Signal	0.46	0.65	1.61	1.8	5 23	1 68	1,68	1.61	1.61	0.97	1.61	5.97	1.57	8.0	1.42	2.5	21.82	3.11	1.63	0.63	හ.0	7.67	0.92	0.92	0.85	2.62	4.69	1.5	1.19
	ORF SEQ ID NO:	36227	L	37,155	37186	37201		37458	37461	37462	26173	26433	27374	28508		29325	30688	30701	30706	30830	31201	31202	31776	31940	31941	31987	32135	32148	33070	34390
	SEQ ID NO:	23012			23899	23908		24147	24150	24150	13514	15558	14662	15864	15996	16684	18059	18072	18076	18150	18301	18301	18816	18967	18967	19013	19139	19149	19993	21252
	Probe SEQ.ID NO:	10365	10431	11206	11236	11246	11548	11548	11551	11551	741	1014	1926	3089	3234	3934	5253	5266	5270	5347	5503	2203	9039	6190	6190	6239	6370	9380	7310	8560

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01/57275		П	5 2	Т	Т	Т	Т	7	T	T	Т	T	Т	Т	Т	Τ	1	Т	Т	<u> </u>	T	Ť	F	,	T	<u> </u>	P	Ç7 T	[/[T	JS() <u>1/</u>	00	667
Top Hit Descriptor	Homo conjune VIA A 0.177	7	013458 GUANINE NUCLEOTIDE EXCHANGE FACTOR PROTEIN TRIO	aa3205.r1 NCI_CGAP_GCB1 Homo sapiens cDNA clone IMAGE:814977 5	Homo sapiens partal IL-12RB1 gene for IL-12 receptor beta1 chain, exons 16-17	1	Homo sapiens hypothetical protein FLJ10206 (FLJ10206), mRNA	Homo sapiens Scd mRNA for stearoy-CoA desaturase, complete cds	Home septens partial IL-12KB1 gene for IL-12 receptor beta1 chain, exons 16-17	From Septems partial IL-12KB1 gene for IL-12 receptor beta1 chain, exons 16-17	PC3-CT0342 34600 644 646 February CONA clane IMAGE:4310633 5	House control of the	Homo saplens synaptoganin 1 (SYNJ1), mRNA	Home control intersectin 2 (SH3D1B) mRNA, complete cds	modulo septens intersectin 2 (SH3D1B) mRNA, complete cds	Homo saniens exertains the saniens and the saniens and saniens of the saniens exertains exertains the saniens exertains the saniens exertains exertains the saniens exertain	Home sealors of state in the pear-containing protein \$52 precursor, mRNA, complete ods	Home series a disintegrin and metalloprotease domain 10 (ADAM10) mRNA	Homo socioto	Homo sapients gene for Ar-6, complete cds	Homo septions adulation 4 (ACP4), splice variant b, mRNA	Homo capitano o M.W.D	Homo sanians cAMP 2.2.16 L. L. L. L. L. L. L. L. L. L. L. L. L.	Homo saniens etamicathin (STO)	Homo sapiene eterminacion (CTC) gene, partial cds	Homo sequens summiccation (STC) gene, partial cds	From Saptens glutamate receptor, lonotropic, kalnate 1 (GRIK1) mRNA	Iddo Ito XXI Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1733981 3:	002103984F1 NIH _MGC_42 Homo sapiens cDNA clone IMAGE:4300174 5'	MAZ ISSBERFT NIH MGC 42 Homo sapiens cDNA clone IMAGE:4300174 5	Himse D. J. Coprotein (MDK1) gene, exons 6 and 7	Truman F-grycoprotein (MDR1) gene, exons 6 and 7	Human gana for a contributane synthase, exon 7
Top Hit Database Source	LΝ		EST HUMAN	EST HUMAN			I.V.	- L	TN.	ENT LIMAN			FX		T HI IMAM												T HILLYAN	т	ENT LINANIA	Т			
Top Hit Acession No.	11036643 NT	1,027	1.0E-119 A 149790.1		44405007	11425837 IN	032264 4	297701.1	297701.1	T	T	7332				Γ	57250	3011399.1		4755124	4507334 NT		Γ	Γ		4118					Τ		T
Most Similar (Top) Hit BLAST E Value	1.0E-119	1 OE-110 A	1 0F-119 A	1.0E-119 A	1 0F-119	1.0E-119	1.0F-119 AR	1.0E-119 AJ	1.0E-119 AJ	1.0E-119 BF569571 1	1.0E-119 AW847519.1	1.0E-120	1.0E-120 AF248540.1	1.0E-120 AF248540 1	1.0E-120 N44873.1	1.0E-120 AF167706.1	1.0E-120	1.0E-120 AB011399.1	1.0E-120 AB	1.0E-120	1.0E-120	1.0E-120 AF0	1.0E-120 AF056490.1	1.0E-120 AF098463.1	1.0E-120 AF098463.1	1.0E-120	1.0E-120 A/190903.1	1.0E-120 RF568222 1	1.0E-120 BF568222 1	1.0E-120 M2	1.0E-120 M29428 1	1.0E-120 D3	1.0E-120 Y00067.1
Expression Signal	1.15	0.55	3.35	1.29	0.71	0.71	4.16	2.38	2.38	6.31	2.18	1.43	2.49	2.49	2.31	3.08	1.21	0.92	0.92	5.24	1.59	1.95	1.95	2.22	2.22	1.36	6.0	16.61	16.61	0.57	0.57	1.77	6.22
ORF SEQ ID NO:	35663	35867	36008	36263	36317	36318	36390	36913	36914		_	25741	26439	26440	26832	27033	27250	27565	27566	27985	25741	29692	29693	29983	29984	30401	30468	31357	31358	32110	32111	33236	33612
Exon SEQ ID NO:	22458	22654	22794	23047	23089	23089	23163	23660	23660	23826	25326	13100	13778	13778	14152	14343	14539	14831	14831	15247	13100	17064	17064	1/349	17349	17784	17851	18444	18444	19120	19120	20144	20490
Probe SEQ ID NO:	2807	10006	10146	10401	10443	10443	10517	10985	10985	11159	12198	28	918	1018	1405	1597	66/L	7100	218	2531	3302	4325			-1	ı	- 1		- 1		\Box	ı	7795

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Table 4
Single Exon Probes Expressed In Brain

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Top Hit Descriptor	Human gene for neurofilement subunit M (NF-M)	602035352F1 NCI_CGAP_Bm64 Homo sapiens cDNA clone IMAGE:4183333 5'	Homo sapiens mRNA for KIAA1231 protein, partial cds	Homo sapiens mRNA for KIAA1231 protein, partial cds	Homo saplens mRNA, chromosome 1 specific transcript KIAA0495	Homo sapiens mRNA, chromosome 1 specific transcript KIAA0495	Homo sapiens mRNA for KIAA0465 proteln, partial cds	601307739F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3625544 5'	601307739F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3625544 5'	601888956F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:4122876 5	AU133205 NT2RP4 Homo sapiens cDNA clone NT2RP4001541 5'	Novel human gene mapping to chomosome 13, similar to rat RhoGAP	CM-BT043-090299-075 BT043 Homo sapiens cDNA	Homo sapiens mRNA for KIAA1077 protein, partial cds	601176727F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3532015 5'	601443135F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3847281 6'	601443135F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3847281 5	Human muscle glycogen phosphorylase (PYGM) gene, 5'UTR and exon 1	Homo sapiens NF2 gene	AU134963 PLACE1 Homo sapiens cDNA clone PLACE1000899 5'	Homo sapiens TNF receptor-associated factor 1 (TRAF1) mRNA	Homo saplens mRNA for KIAA0581 protein, partial cds	Homo sapiens inositol polyphosphata-4-phosphatase.type I, 107kD (INPP4A), splice variant a, mRNA	Homo sapiens inositol polyphosphate-4-phosphatase, type I, 107kD (INPP4A), splice variant a, mRNA	Human prohormone converting enzyme (NEC2) gene, exon 9	Human prohormone converting enzyme (NEC2) gene, exon 9	Homo sapiens metabotropic glutamate receptor 1 beta (mGluR1beta) mRNA, complete cds	Homo sapiens hHb3 gene for hair keratin, exons 1 to 9	Homo sapiens hHb3 gene for hair keratin, exons 1 to 9	Homo sapiens mRNA for KIAA1337 protein, partial cds	Homo sapiens mRNA for KIAA1337 protein, partial cds	Homo sapiens adaptor-related protein complex AP-4 epsilon subunit mRNA, complete cds
Top Hit Database Source	TN	EST_HUMAN	L	NT	ΝΤ		ΙN	EST_HUMAN			EST_HUMAN	LN LN	EST_HUMAN	Г	L_HUMAN	EST HUMAN	EST_HUMAN	Z	LN	EST HUMAN	LN L	NT	TN	TN	F	Ę	NT.	LN.	LN	NT	N	NT
Top Hit Acession No.	0 Y00067.1	D BF337599.1	0 AB033057.1	1.0E-120 AB033057.1	1.0E-120 AB007964.1		1.0E-120 AB007934.1	1.0E-120 BE392102.1	3E392102.1	1.0E-120 BF306541.1	1.0E-120 AU133205.1	1.0E-120 AL049801.1	1.0E-120 Al904151.1					J94774.1	718000.1	1.0E-121 AU134963.1	5032192 NT	1.0E-121 AB011153.1	4755139 NT	4755139 NT	M95968.1	M95968.1	76631.1	Y19208.1	Y19208.1	1.0E-121 AB037758.1	1.0E-121 AB037758.1	1.0E-121 AF155156.2
Most Similar (Top) Hit BLAST E Value	1.0E-120	1.0E-120 E	1.0E-120	1.0E-120 A	1.0E-120	1.0E-120 ₽	1.0E-120	1.0E-120 E	1.0E-120 BE392102.1	1.0E-120 E	1.0E-120 /	1.0E-120 A	1.0E-120 /	1.0E-120	1.0E-120 E	1.0E-120 E	1.0E-120 E	1.0E-120 U94774.1	1.0E-121 Y18000.1	1.0E-121	1.0E-121	1.0E-121	1.0E-121	1.0E-121	1.0E-121 M95968.1	1.0E-121 M95968.1	1.0E-121 L76631.1	1.0E-121 Y19208.1	1.0E-121 Y19208.1	1.0E-121	H	1
Expression Signal	5.22	2.43	0.85	0.85	2.33	2.33	1.17	5.26	5.26	3.75	8.25	0.79	0.54	2.55	3.72	2.06	2.08	1.38	1.08	0.83	1.31	2.81	1.33	1.33	1.18	1.18	1.51	3.51	3.51	1.19		7.35
ORF SEQ ID NO:	33613	34063	34135	34136	34138	34139		35233	35234	35492		35525		35831		37311	37312	L	L				27407	27408								Ц
Exon SEQ ID NO:	20490	1	l	1	21001	21001	L.	L	L	١.	1_	22329	L		1_	1	1.	L	L	1_	L	14315	1	14694		L	L		L	1	Li	1 1
Probe SEQ ID NO:	7795	8230	8303	8303	8307	8307	8352	9401	249	9645	9860	2677	9792	9266	11071	11316	11316	11650	7	369	707	1568	1958	1958	1964	1964	2095	3079	3079	3525	3525	3666

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Table 4
Single Exon Probes Expressed in Brain

	T-	_	_	_			_	_	_		-				_	т	7	7	\neg	7	∽	7	_					_		~~~
Top Hit Descriptor	qx57b01.x1 NCI_CGAP_Pan1 Homo sapiens cDNA clone IMAGE:2005417 3'	H.sapiens ECE-1 gene (exon 17)	hu09f08.x1 NCI_CGAP_Lu24 Homo sepiens cDNA clone IMAGE:31661193'	601140485F1 NIH_MGC_9 Homo saplens cDNA clone IMAGE:3049820 5'	Human glucose transporter (GLUT4) gene, complete cds	Homo saplens Xq pseudoautosomal region; segment 2/2	RC3-NN0068-270400-011-f02 NN0066 Homo sapiens cDNA	RC3-NN0068-270400-011-f02 NN0066 Homo sapiens cDNA	Homo saplens gamma-aminobutyric acid (GABA) A receptor, alpha 2 (GABRA2), mRNA	Homo saplens DNA for prostacyclin synthase, exon 8	Homo sapiens DNA for prostacyciin synthase, exon 8	ia05g05.y1 Human Pancreatic Islets Homo sapiens cDNA 5' similar to TR:075457 075457 CYTOSOLIC PHOSPHOLIPASE A2-GAMMA. ;	ia05g05.y1 Human Pancreatic Islets Homo sapiens cDNA 6' similar to TR:075457 075457 CYTOSOLIC PHOSPHOLIPASE A2-GAMMA. ;	Homo saplens COX11 (yeast) homolog, cytochrome c oxidase assembly protein (COX11), mRNA	Homo sapiens UDP-glucuronosyltransferase 2B4 precursor (UGT2B4) mRNA, UGT2B4*E458 allele,	Mulpiter cus	Homo sapiens chloride intracellular channel 4 like (CLIC4L), mkNA	yv74c01.s1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:24844833	AU119320 HEMBA1 Home sepiens cDNA clane HEMBA1005536 5'	Homo saplens T-cell lymphoma invasion and metastasis 1 (TIAM1), mRNA	Homo sapiens intersectin short isoform (ITSN) mRNA, complete cds	Homo sapiens T-cell lymphoma Invasion and metastasis 1 (TIAM1), mRNA	Homo sapiens intersectin short isoform (ITSN) mRNA, complete cds	Human kappa-immunoglobulin germline pseudogene (Chr22.4) variable region (subgroup V kappa II)	Homo sepiens cysteine-rich repeat-containing protein S52 precursor, mRNA, complete cds	Homo sapiens collagen, type XII, alpha 1 (COL12A1), mRNA	Homo sapiens collagen, type XII, alpha 1 (COL12A1), mRNA	601497032F1 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3898358 5	601896173F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4125234 5'	801896173F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4125234 5'
Top Hit Databese Source	EST_HUMAN	NT	EST_HUMAN	EST_HUMAN	IN	TN	EST_HUMAN	EST_HUMAN	IN	TN	INT	EST_HUMAN	EST HUMAN	LN	H.	iz	F.	EST_HUMAN	EST_HUMAN	TN	NT	NT	LN	LN	F	IN	FN	EST_HUMAN	EST_HUMAN	EST_HUMAN
Top Hit Acession No.	H AI263294.1	1 X91937.1	1 BE222250.1	1 BE271424.1	1 M91463.1	1 AJ271736.1	1 AW898086.1	1 AW898086.1	11436217	384122.1	384122.1	1.0E-121 AW583858.1	1 0E-121 AW583858 1	11427788 NT	100,000	1.0E-121 AFU64200.1	7330334 NT	V59624.1	1.0E-121 AU119320.1	11526176 NT	1.0E-122 AF114488.1 NT	11526176	1.0E-122 AF114488.1	M20707.1	AF167706.1	11418424 NT	11418424 NT	1.0E-122 BE906024.1	1.0E-122 BF316170.1	BF316170.1
Most Similar (Top) Hit BLAST E Value	1.0E-121	1.0E-121	1.0E-121	1.0E-121	1.0E-121	1.0E-121	1.0E-121	1.0E-121	1.0E-121	1.0E-121 D84122.1	1.0E-121 D84122.1	1.0E-121	1.0E-121	1.0E-121	10,	1.0E-121	1.0E-121	1.0E-121 N59624.1	1.0E-121	1.0E-122	1.0E-122	1.0E-122	1.0E-122	1.0E-122 M20707.1	1.0E-122	1.0E-122	1.0E-122	1.0E-122	1.0E-122	1.0E-122
Expression Signal	2	3.24	76.0	0.85	16.0	0.68	1.78	1.78	2.11	2.45	2.45	1.21	1.21	2.95		1.28	3.48	2.53	2.83	2.28	2.63	2.14	3.99	4.29					5.21	5.21
ORF SEQ ID NO:	29863	30259	30510	31167	32284		30537	30538	33660	33664	33665	35615	35616		0,000	36616	36820	36844	37269	25707	25763	25787	26302	26614	27128	27150	L			
Exon SEQ ID NO:	17035	17847	17994	18273	19290		_	L		20537	20537	l	22409	1	<u> </u>		23569	23597	23968	L	13128	L	L	13950	14432	L	L	L		15212
Probe SEQ ID NO:	4296	4919	5186	5474	6524	6788	9989	9989	7838	7842	7842	9758	9758	10675		10683	10889	10917	11309	261	327	348	862	1198	888	1707	1707	1807	2495	2495

Page 458 of 536 Table 4 Single Exon Probes Expressed in Brain

01/57275		_					_		·		_				н	. 4	10151	n		· August	PC	T /	US	01/	/00	66	7
Top Hit Descriptor	Homo sapiens FYVE domain-containing dual specificity protein phosphatase FYVE-DSP2 mRNA, complete cds	Homo sapiens amyloid beta (A4) precursor protein (protease nexin Abheimer disease) (APP) - mRN4	UI-HF-BNO-all-a-03-0-UI-1 NIH MGC 50 Homo sepiens cDNA clone IMAGE:3079948 F.	601113567F1 NIH MGC 16 Homo saplens cDNA clone IMAGE:3354232 5	601113567F1 NIH MGC 16 Homo saplens cDNA clone IMAGE:3354232 5	ak49h06.s1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1409339 3'	Homo sapiens mRNA for doublesex and mab-3 related transcription factor 1 (DMRT1)	Homo sapiens lethal glant larvae (Droscobhila) homolog 2 (LLGL2), mRNA	9/32h07.x1 NCI_CGAP_Brn23 Homo sapiens cDNA clone IMAGE:2013757 3' similar to SW:MTA1_HUMAN Q13330 METASTASIS-ASSOCIATED PROTEIN MTA1.	4y32h07.x1 NCI_CGAP_Brn23 Homo sepiens cDNA clone IMAGE:2013757.3' similar to SW:MTA1_HUMAN Q13330 METASTASIS-ASSOCIATED PROTEIN MTA1	Novel human gene mapping to chomosome X, isoform of dbl (proto-oncogene)	EST367904 MAGE resequences, MAGD Homo sapiens cDNA	Homo sapiens gene for B120, expn 10	Homo sapiens phosphomannomutase 1 (PMM1), mRNA	602018058F1 NCI_CGAP_Brn67 Homo saplens cDNA clone IMAGE:4153670 5	602018058F1 NCI_CGAP_Brn67 Homo sapiens cDNA clone IMAGE:4153670 5'	Homo sapiens chromosome 21 segment HS21C049	Homo sapiens inner membrane protein, mitochondrial (mitofilin) (IMMT), mRNA	Homo sapiens phosphatidylinositol-4-phosphate 5-kinase, type II, beta (PIP5K2B) mRNA, and translated products	Homo sapiens phosphatidylinositol-4-phosphate 5-kinase, type II, beta (PIPBK2B) mRNA, and translated products	Homo sabiens partial mRNA for immunociobulin kappa chain variable recion (IGVK nene) samula GNO2	Human amelogenin (AMELY) gene, 3' end of cds	Human amelogenin (AMELY) gene, 3' end of cds	Human amelogenin (AMELY) gene, 3' end of cds	Homo sapiens RAB9-like protein (LOC51209), mRNA	Homo sapiens glutaminyl-peptide cyclotransferase (glutaminyl cyclase) (QPCT), mRNA	Homo sapiens retinaldehyde-binding protein (CRALBP) gene, complete cds
Top Hit Database Source	TN	ŇŢ	EST HUMAN	EST HUMAN	EST HUMAN	EST HUMAN	NT	L	EST_HUMAN	EST HUMAN	Ŋ	EST HUMAN	NT	N-	EST_HUMAN	EST_HUMAN	N	Ν	N	 	i z	NT	NT	L	N	N	LN.
Top Hit Acessian No.	AF264717.1	4502168 NJ	1.0E-122 AW504645.1	1.0E-122 BE256039.1	1.0E-122 BE256039.1	1.0E-122 AA868671.1	AJ276801.1	11424216 NT	AI359618.1	1.0E-122 Al359618.1	1.0E-122 AL117234.1	Γ	1.0E-122 AB024068.1	11418187 NT	1.0E-123 BF345274.1	1.0E-123 BF345274.1	4L163249.2	5803114 NT	4505818 NT	TN 8183058	388641.1				7705962 NT	6912617 NT	
Most Similar (Top) Hit BLAST E Value	1.0E-122 A	1.0E-122	1.0E-122	1		1.0E-122		1.0E-122	1.0E-122 A	1.0E-122	1.0E-122	1.0E-122	1.0E-122	1.0E-122				1.0E-123	1.0E-123	1.0E-123	1.0E-123 AJ	1.0E-123 M55419.1	1.0E-123 M55419.1	1.0E-123 M55419.1	1.0E-123	1.0E-123	1.0E-123 L34219.1
Expression Signal	1.41	5.04	1.48	1.36	7.1	0.73	99.0	1.21	1.19	1.19	1.05	2.17	1.88	9.6	1.74	1.74	5.4	2.5	5.58	5.58	0.91	2.7	2.7	2.7	3.62	0.95	1.56
ORF SEQ ID NO:	28260	30148		31170		32865	34530	34761	35073	35074	66898		37349			26182		26422	26634	26635	26871	27555	27556	27557		28657	30847
Exon SEQ (D NO:	15612	17526	17658	18275		_ (21617	21902	21902	22682	23588	24046	24509	13523	13523	13754	13761	13966	13966	i .	14823	14823	14823	15038	16007	18163
Probe SEQ ID NO:	2844	4795	4930	5478	9999	7113	8695	8926	9223	9223	10034	10908	11358	11958	751	751	992	1001	1218	1218	1438	2002	2002	2092	2313	3245	5361

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WO 01/57275

281b04.r1 Stratagene schizo brain S11 Homo sapiens dDNA done IMAGE:728719 5' similar to TR:G300482 G300482 POL=REVERSE TRANSCRIPTASE HOMOLOG (RETROVIRAL ELEMENT); z81b04.r1 Stratagene schizo brain S11 Homo sapiens cDNA clone IMAGE:728719 6' similar to TR:G300482 yq84e03.r1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:202444 5' similar to Oryctolagus cuniculus New Zealand white elongation factor 1 alpha (Rabeflaz) mRNA, complete cds Human hBRAVO/Nr-CAM precursor (hBRAVO/Nr-CAM) gene, complete cds Homo sapiens heparan sulfate (glucosamine) 3-0-sulfotransferase 2 (HS3ST2), mRNA G300482 POL-REVERSE TRANSCRIPTASE HOMOLOG (RETROVIRAL ELEMENT) 601152815F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3509162 5' AU131881 NT2RP3 Homo sapiens cDNA clone NT2RP3003409 5' Homo sapiens retinaldehyde-binding protein (CRALBP) gene, complete cds 601591108F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3945433 5 602086791F1 NIH_MGC_83 Homo saplens cDNA clone IMAGE:4250879 5 601491715F1 NIH_MGC_69 Home saplens cDNA clone IMAGE:3893954 5' 602086791F1 NIH_MGC_83 Homo saplens cDNA clone IMAGE:4250879 Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1) mRNA Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1) mRNA Homo sapiens DNA for amylold precursor protein, complete cds Human putative ribosomal protein S1 mRNA Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1) mRNA Homo sapiens glucose transporter 3 gene, exons 9, 10, and complete cds Homo sapiens glucose transporter 3 gene, exons 9, 10, and complete cds Homo sapiens glutamate receptor, ionotropic, kainate 1 (GRIK1) mRNA AU118435 HEMBA1 Homo saplens cDNA clone HEMBA1003591 5 AU131881 NT2RP3 Homo sapiens cDNA clone NT2RP3003409 5' Top Hit Descriptor Homo sapiens 2'-5'oligoadenylate synthetase 2 (OAS2), mRNA Homo sapiens mRNA for nucleolar RNA-helicase (noH61 gene) RC4-BT0311-251199-012-a07 BT0311 Homo sapiens cDNA Human growth hormone releasing hormone gene, exon 7 Homo sapiens mRNA for KIAA0454 protein, partial cds SP:YAK1_YEAST P14680 PROTEIN KINASE YAK1 Homo sapiens hypothetical protein (HSPC068), mRNA Homo sapiens chromosome 21 segment HS21C046 Single Exon Probes Expressed in Brain EST HUMAN EST HUMAN EST_HUMAN EST_HUMAN EST_HUMAN HUMAN HUMAN Top Hit Database EST HUMAN EST HUMAN EST HUMAN EST_HUMAN Source EST_HUMAN HCMAN EST z 눌 7500 NT 4507500 NT Ę F 4504116 NT Top Hit Acession 11436439 4507500 BE799746.1 AU118435.1 1.0E-123 AU131881.1 AW371924.1 1.0E-123 AB007923.1 1.0E-124 AL163246.2 1.0E-124 AA397551.1 BF677292.1 1.0E-123 BF677292.1 1.0E-124 45 AA397551.1 4U131881 AF155654.1 1.0E-123 H53198.1 AF274892.1 L34219.1 U55258.1 1.0E-123 U09823.1 1.0E-123 BF677292 AJ131712. 1.0E-124 D87675 1.0E-123 L 1.0E-123 L 1.0E-123 1.0E-123 .0E-123 (Top) Hit BLAST E 1.0E-123 123 .0E-124 1.0E-124 1.0E-123 1.0E-123 0E-124 Most Simila 1.0E-124 .0E-124 .0E-124 .0E-124 Ä .56 1.62 2.59 1.62 2.18 4.66 2.19 15.48 0.67 Expression 2.84 2.68 2.68 1.94 4.95 9 30848 31191 ORF SEQ 32145 32849 33312 33324 33636 35193 35239 37638 25708 ID NO: 37637 25898 26092 26748 27263 25709 26747 28774 SEQ ID 18163 18293 19783 19986 20511 22023 13070 13076 24314 24314 13450 13515 13562 13653 14074 14548 16118 14074 Probe SEQ ID 5494 6905 6916 7094 5361 7302 7816 8433 9269 7542 7551 7816 1720 262 88 675 675 ë 473 790 884 1808 3358 1325

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Table 4
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Single Exon Probes Expressed in Brain	Top Hit Descriptor		Homo sapiens ATP-sensitive inwardly rectifying K-channel subunit (KCN JAJAIRA) was a man	Homo saplens ATP-sensitive Inwardly rectifying K-channel subunit (KCN I6/RIR1) and sensitive Invariance subunit (KCN I6/RIR1) and sensitive Invariance subunit (KCN I6/RIR1) and sensitive Invariance subunit (KCN I6/RIR1) and sensitive Invariance subunit (KCN I6/RIR1) and sensitive Invariance subunit (KCN I6/RIR1) and sensitive Invariance subunit (KCN I6/RIR1) and sensitive Invariance subunit (KCN I6/RIR1) and sensitive Invariance subunit (KCN I6/RIR1) and sensitive subunit (KCN I6/RIR1) and sensitive subunit (KCN I6/RIR1) and sensitive subunit (KCN I6/RIR1) and sensitive subunit (KCN I6/RIR1) and sensitive subunit (KCN I6/RIR1) and sensitive subunit (KCN I6/RIR1) and sensitive subunit (KCN I6/RIR1) and sensitive subunit (KCN I6/RIR1) and sensitive subunit (KCN I6/RIR1) and sensitive subunit (KCN I6/RIR1) and sensitive subunit s	H. sapiens lactate dehydrogenase B gene exon 1 and 2 (EC 1.1.1.27) (and tolhed CDS)	Homo sapiens T-cell lymphome invasion and metastasts 1 (TIAM1) mRNA	Homo sapiens glutamate receptor, ionotropic, kainete 1 (GRIK1) mRNA	Homo sapiens gene for B120, exon 11	Human fibronectin gene extra type III repeat (EDII), exon x+1	Homo sapiens hypothetical protein FLJ10300 (FLJ10300) mRNA	Homo sapiens IQ motif containing GTPase activating protein 1 (IOGAPA) mDNA	602124644F1 NIH_MGC_66 Homo saplens cDNA chine IMAGE-284626	AV711283 Cu Homo sapiens cDNA clone CuAADF07 5	Hymn conject the second	The separate and full specific protease 9, X chromosome (Drosophila fat facets related) (LISPOX) INDIVIDUAL	In. Tutsdulis mkNA for hoxe3 gene	000943/71F1 NIH_MGC_8 Homo sapiens cDNA clone IMAGE:2966585 5'	ouce43/11F1 NIH_MGC_8 Homo sepiens cDNA clone IMAGE:2966585 5	acoanus รา Stratagene HeLa cell s3 937216 Homo sapiens cDNA clone IMAGE ละรลดว จ	Homo saptens ribosomal protein L5 (RPL5) mRNA	PSTAGOS A INCL. CGAP_KI011 Homo sapiens cDNA clone IMAGE:2953240 3' similar to TR:095162 095162 PEROXISOMAL SHORT-CHAIN ALCOHOL DELIVER CENTRAL	hg94a09.x1 NCI_CGAP_Kld11 Homo sapiens cDNA clone IMAGE 2053240 32 cloude: TE 2022.2	O95162 PEROXISOMAL SHORT-CHAIN ALCOHOL DEHYDROGENASF	WC43g03.x1 NCI_CGAP_Pr28 Homo sapiens cDNA clone IMAGE:2321428 3'	wc43gt3.x1 NCI_CGAP_Pr28 Homo sapiens cDNA clone IMAGE:2321428 3'	AV645633 GLC Homo sapiens cDNA clone GLCACE04 3'	AV645633 GLC Homo sepiens cDNA clone GLCACE04 3'	Homo sapiens cep250 centrosome associated protein mRNA, complete cds	Homo sapiens cep250 centrosome associated protein mRNA, complete cds	WESTIL NCI. CGAP_KId12 Homo septens cDNA clone IIMAGE:2400891 3'	Westra NCI CGAP Kid12 Homo saplens cDNA clone IMAGE:2400891 3'	U-HIBN0-akz-b-04-0-UI,r1 NIH, MGC_50 Homo sapiens cDNA clone IMAGE:3078846 5:	Fromo sapiens leucine-rich, glioma inactivated 1 (LGI1), mRNA	numan muscle glycogen phosphorylase (PYGM) gene, exons 6 through 17 hi05c06.x1 Sogres, NFI T GRC s1 Home and 17	Control of the contro
gle Exon Pr	Top Hit Database Source	1	Z	Z I	Z	2 1	ż	LN:	L	Į.	Ļ\	EST_HUMAN	EST HUMAN	5	FN	FOT UNIVERSE	EST HUMAN	NAMON 10	ES - HUMAN		EST_HUMAN		EST HUMAN	ST HUMAN	EST HUMAIN	ES TOMAN	ES HUMAN		100000	NOWAI	Т	- TOWAN		HUMAN	1
uio	Top Hit Acession No.	C79201.4	278894.1	V19704.4	13/34.	N 006/064	450400	-		N 222337 N1	4506786	7	1.0E-124 AV /11263.1	11420654 NT	1717	T	T	630334 4	4506054	400000	1612106.1	2,000,00	00884.4		T		122855 1		Ţ	T	Ţ.	11432007	12	665663.1	
	Most Similar (Top) Hit BLAST E Value	1 0E-124 C79894 4	1.0E-124 S78694.1	1 0F-124 V	1 0F-124	1 0F-124	4 05 424 4	1.0E-124 AB02406	1 05 424	100-124	105-124	1.0E-124 DI	1.0E-124	1.0E-124	1.0E-124 Y	1.0E-124 BF271295 1	1,0E-124 BE271205 4	1.0E-124 AA	1.0E-124		1.0E-124 AW	1 0E-124 AW	1 0F-124 AIZ	1.0E-124 A1700864 4	1.0E-124 AV645633 1	1.0E-124 AV645633 4	1.0E-124 AF	1 0F-124 AF	1.0E-124 AI767133 4	1.0E-124 AI787133 4	1.0E-124 AW	1.0E-124	1.0E-124 U94	1.0E-124 AW	
	Expression Signal	1.25	1.25	1.54	-	134	100	1 13	12.13	200	8 94	5 6	9.0	0.98	2.95	0.94	0.94	0.92	8.07		1.28	1 26	0.61	0.61	2.31	2.31	0.52	0.52	7.57	7.57	1.57	4	1.61	3.51	
	ORF SEQ ID NO:	28895	28896	29033	29269	29432	30061		30647	31293	31514	31823		32099	32695	32786	32787	33220	33982		34195	34196	34907	34908	35223	35224	35309	35310	35342	35343	35630	- -	36905	37265	
	Exon SEQ ID NO:	16239	16239	16393			17430	17608	18023	18383	18588	18856		19109	19649	19729	19729	20128	20850	-	21055	21055	21749	21749	22052	22052	22130	22130	22161	22161	22422	23487	23652	23964	
	Probe SEQ ID NO:	3482	3482	3640	3880	4056	4696	4881	5215	5586	5797	6077		6339	6912	7037	7037	7452	8156	-	8362	8362	0906	0906	9390	9390	9477	9477	9208	9508	9771	10804	10976	11305	

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					7	igle Exon Pro	Single Exon Probes Expressed in Brain
Probe SEQ ID	Exon SEQ ID	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E	Top Hit Acess	Top Hit Database	
				Value	<u>:</u>	Source	OP Tit Descriptor
11452	23219	36452	3	1.0E-124	24 AI446455.1	EST_HUMAN	199603.x1 NCI_CGAP_Gas4 Homo sapiens cDNA clone IMAGE:2141980 3' similar to TR:O31662 O31662 YRRS PROTEIN
11452	23219	36453	8	1.0E-124	24 AI446455.1	EST_HUMAN	119e03 x1 NC_CGAP_Ges4 Homo sepiens cDNA clone IMAGE:2141980 3' similar to TR:O31662 O31662 YKRS PROTEIN
12029	13450	26092	4.1	1.0E-124	24 AA397551.1	EST_HUMAN	281b04.r1 Stratagene schizo brain S11 Homo saplens cDNA clane IMAGE:728719 5' similar to TR:G300482 G300482 POI =REVERSE TRANSCEIDTAGE 10000
12029	13450	26093	4.1	1.0E-124	24 AA397551 1	FOR LIBRARY	281504.r1 Stratagene schizo brain S11 Homo sepiens cDNA clone IMAGE;728719 5; similar to TB-connect
12454	24823	31026	1.61		24 AB029016 1	ES L TIOMAN	GSUU482 POLEREVERSE TRANSCRIPTASE HOMOLOG (RETROVIRAL ELEMENT):
12706	25279	30729	1.44	1.0E-124	11417862 NT	LN	Homo septems mRNA for KIAA1093 protein, partial cds
2706	25279	30730	1.44	1.0E-124	114178621NT	Į.	Home septents calcineurin binding protein 1 (KIAA0330), mRNA
146	12961	25603	1.74	1.0E-125	1.0E-125 BE219510.1	EST HUMAN	The Septents calcineurin binding protein 1 (KIAA0330), mRNA NGC CGAP_Lu24 Homo sapilens cDNA clone IMAGE:3177886 3' similar to TR:Q25058 Q25058
146	12961	25604	1.74	1.0E-125	25 BE219540 4	FOT LINAAN	hv59e08.x1 NOI_CGAP_Lu24 Homo saplens cDNA clone IMAGE:3177686 3' similar to TR-O25658 O25658
틹	13115		5.49	1.0E-125	1	THE POINTS	ribrorellin IA;
417	12828	25441	5.47	1.0E-125		TOT LINKAN	profile septems mixIA for KIAA1172 protein, partial cds
88	13408	26043	1.18	1.0E-125		EST LIMAN	001377981F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3926685 51
8	13408	26044	1.18	1.0E-125		FOT LIMAN	HARORE I II II II II II II II II II II II II
E	13485	26134	1,56	1.0E-125		L LV	HAVOOD Human fetal liver cDNA library Homo sapiens cDNA
8	13610	26280	200	4 00 400		T	2k3c07.s1 Soares_pregnant_uterus_NbHPU Homo seniess_CNN_A_LSNAACT_ASSA_A
978	13743	28405	122	1.0E-125 /	T	EST HUMAN	9b:X65857_cds1 OLFACTORY RECEPTOR-LIKE PROTEIN HGMP07E (HUMAN)
1131	13887	26545	1.76	1.0E-125	220		Homo saplens chromosome 21 segment HS21C010
1668	15575	27105	0.99	1.0E-125	1.0E-125 7661867 NT		Homo septens KIAA0744 gene product, histone deacetylase 7 (KIAA0744), mRNA
1793	14533	27242	0.94	105,125			Homo sapiens Bruton's tyrosine kinase (BTK), alpha-D-glactosidase 4 (GLA) (44 (H.A. H.A. H.A. H.A. H.A. H.A. H.A. H.A
1804	14544	27258	1.59	1.0E-125 AF01547.1	T	Z	(L44L) and FTP3 (FTP3) genes, complete cds
1804	14544	27259	1.59	1.0E-125 AF015450 1	T		Homo sapiens Usurpin-alpha mRNA, complete cds
2358	15080	27816	1.68	1.0E-125 AA011278.1		T H! IMAN	T
2508	15225	27967	000	1 OE 425			ZK53c07.51 Sogres, pregnant_uterus_NbHPU Homo sapiens cDNA clone IMAGE.429568 5"
2604	15317	28057	1.3	1.0E-125	2087	HOMAN	R-LIKE PROTEIN HGMP07E (HUMAN):
	15317	28058	1.3	1.0E-125	4504808		Homo sapiens Inhibin, alpha (INHA) mRNA
				777	4304080 N		Homo sapiens inhibin, alpha (INHA) mRNA

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																_	_		\sim	(144)				_					4 -
Top Hit Descriptor		bb74f06.y1 NIH_MGC_12 Homo saplens cDNA clone IMAGE:3048131 5' similar to TR:095604 095604 ZINC FINGER PROTEIN:	zk33c07.s1 Soares_pregnant_uterus_NbHPU Homo sapiens cDNA clone IMAGE:486540 3' similar to gb:X65857_cds1 OLFACTORY RECEPTOR-LIKE PROTEIN HGMP07E (HUMAN);	Homo saplens zinc finger protein ZNF287 (ZNF287), mRNA	Hamo sapiens zinc finger protein ZNF287 (ZNF287), mRNA	Inv59a08.x1 NCI_CGAP_Lu24 Homo saplens cDNA clone IMAGE:3177686 3' similar to 1 R:Q25038 G25038 FIBROPELLIN IA;	hv59a08.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3177686 3' similar to 1 R:Q25038 Q25038 FIBROPELLIN IA;	Homo sapiens KIAA0985 protein (KIAA0985), mRNA	QV2-HT0577-010500-165-b06 HT0577 Homo sapiens cDNA	601433472F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3918952 5'	tu67c07.x1 NCI_CGAP_Gas4 Homo saplens cDNA clone (MAGE:2256108 3' similar to WP:C45G9.2	OE01854;	601305670F1 NIH MGC 39 Homo sapiens cLinA cione iMA CE: 3040/47 5	601335625F1 NIH_MGC_44 Homo sapiens cDNA cione INACE;300279U o	601335826F1 NIH_MGC_44 Homo saplens cUNA clone IMAGE:3089790 3	Homo sapiens IGF-II gene, exon 5	Homo saplens IGF-II gene, exon 5	601236183F1 NIH_MGC_44 Homo saplens cDNA clone IMAGE:3608084 5	Human chtomosome 10 duplicated adrenoleukodystrophy (ALD) gene segment containing exons 8-10	Human chromosome 10 duplicated adrenoleukodystrophy (ALD) gene segment containing exons 8-10	QV1-HT0638-070500-191-d12 HT0638 Homo sapiens cDNA	QV1-HT0638-070500-191-d12 HT0638 Homo sapiens cDNA	h52b03.x1 NCL_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2171981 3' sImilar to TR:Q14089 Q14089 HYPOTHETICAL PROTEIN :	601590345F1 NIH MGC 7 Homo saplens cDNA clone IMAGE:3944531 5	Human mRNA for KIAA0300 gene, partial cds	Home satiens LREI delte exen 5	Homo saniens reanodine receptor 1 (skeletal) (RYR1), mRNA	Homo sanlens mRNA for KIAA0667 protein, partial cds	
Top Hit Database	Source	EST_HUMAN	EST_HUMAN	LN	ΤN	EST_HUMAN	STO.1 EST HUMAN	LN	EST_HUMAN	EST_HUMAN		EST HUMAN	EST HUMAN	EST_HUMAN	EST HUMAN	L	LN	EST_HUMAN	NT	Ę	EST_HUMAN	EST HUMAN	EST HIMAN	EST HUMAN	- LN	I N	INT	1	IN.
Top Hit Acession		1.0E-125 BE018009.1	1.0E-125 AA042813.1	11425114 NT	11425114 NT	1.0E-125 BE219510.1	3E219510.1	1.0E-125 11436448	3E175169.1	1.0E-125 BE892660.1		1.0E-125 AI679904.1	1.0E-125 BE736055.1	3E562526.1	1.0E-125 BE562526.1	X03427.1	1.0E-125 X03427.1	BE515100.1	U90288.1	U90288.1	1.0E-125 BE181640.1	1.0E-125 BE181640.1	1 OE -125 AISB5006 1	1.0E-125 AIGCSSC.1	4 OF 426 ABO02208 4	AE0424E0 4	1.05-123 A 10-12-12-13 A 10-13-13-13-13-13-13-13-13-13-13-13-13-13-	1.05-125	AB014507.1
Most Similar (Top) Hit	Value	1.0E-125	1.0E-125	1.0E-125	1.0E-125	1.0E-125	1.0E-125	1.0E-125	1.0E-125	1.0E-125		1.0E-125	1.0E-125	1.0E-125			l		1.0E-125 U90288.1	1.0E-125	1.0E-125	1.0E-125	1 OF 128	1 0F-125	4 OF 428	1.05-123	1.0E-123	1.05-120	1.05-729
Expression		0.94	0.92	2.09	2.09	1.48	1.48	3.16	0.91	3.76		0.74	8.0 .	1.63	1.53	5.26	5.26	0.55	0.99	66.0	6.83			0.90					3.94
ORF SEQ		28425	<u>.</u> _		29884			L		31565				32253	32254	L	32460	1	34273		L	34857		1					37026
Exon SEQ ID	ö	17874	1	I_	L	l	<u>ا</u> ـ ـ ـ ا		1	1	1	18670	1	ļ	L	ı	1	20370	l	i i		L.		4	4	_	- 1	- 1	23751
Probe SEQ ID	ö	3009	3839	4513	4513	4971	4971	5783	5802	5842		5884	6188	6486	6486	6961	6961	7706	8444	0.444	9016	9016		9281	1835	1891	19581	10758	11081

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-		_	_		_	_	_		_	_	_	-	_	Α,	-	_		-			_	_	\sim	_	,		_	_	-		
	Top Hit Descriptor	Homo sapiens myosin, heavy polypeptide 1, skeletal muscle, adult (MYH1), mRNA	Homo sapiens poly(A) binding protein II (PABP2) gene, complete ods	RC3-ST0186-250200-018-c11 ST0186 Homo seplens cDNA	QV3-BT0569-020200-075-909 BT0569 Homo sapiens cDNA	QV3-BT0569-020200-075-g09 BT0569 Homo saplens cDNA	Homo sapiens CDC-like kinase (CLK) mRNA	H.saplens gene for alpha1-antichymotrypsin, exon 3	Homo sapiens hypothetical protein FLJ20048 (FLJ20048), mRNA	Homo saplens hypothetical protein FLJ20048 (FLJ20048), mRNA	Homo sapiens RAN binding protein 2 (RANBP2), mRNA	Homo sapiens glutamate receptor, ionotropic, kalnate 1 (GRIK1) mRNA	zo72c03.r1 Stratagene pancreas (#937208) Homo sapiens cDNA clone IMAGE:592420 5'	zo72c03.r1 Stratagene pancreas (#937208) Homo sapiens cDNA clone IMAGE:592420 5'	H.sapiens DNA for liver cytochrome b5 pseudogene	Homo sapiens death receptor 6 (DR6), mRNA	yx78c06.r1 Soares melanocyte 2NbHM Homo sapiens cDNA clone IMAGE:287850 5'	601577981F1 NIH_MGC_9 Homo saplens cDNA clone IMAGE:3926685 5'	ya52b12.s1 Scares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:66527 3'	zx66e03.r1 Soares_total_fetus_Nb2HF8_9w Homo sepiens cDNA clone IMAGE:796444 5' similar to TR:G1145880 G1145880 TITIN ;	Homo sapiens mRNA for KIAA1525 protein, partial cds	Homo sapiens mRNA for KIAA1525 protein, partial cds	Homo sapiens ciliary dynein heavy chain 9 (DNAH9) mRNA, complete cds	Homo sapiens ciliary dynein heavy chain 9 (DNAH9) mRNA, complete cds	AU136463 PLACE1 Homo sapiens cDNA clone PLACE1004325 5'	wf08f01.x1 Scares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2350009 3' similar to SW:MPP2_HUMAN Q14168 MAGUK P55 SUBFAMILY MEMBER 2;	Homo saplens mRNA for KIAA1294 protein, partial cds	Homo sapiens mRNA for KIAA1294 protein, partial cds	Human mRNA for ankyrin (variant 2.1)	ne74b12.s1 NCI_CGAP_Ew1 Homo sapiens cDNA clone IMAGE:909983 similar to SW:TSG6_HUMAN P98066 TUMOR NECROSIS FACTOR-INDUCIBLE PROTEIN TSG-6 PRECURSOR;	Homo saplens neuro-oncological ventral antigen 1 (NOVA1), splice variant 1, mRNA
	Top Hit Database Source	TN	TN	EST_HUMAN	EST_HUMAN	۱ <u>۰</u>	TN	IN	IN	LN	TN	N.	EST_HUMAN	EST_HUMAN	IN	LN	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST HUMAN	F	Į.	LN	IN	EST_HUMAN	EST_HUMAN	Z	Ę	LΝ	EST_HUMAN	Ę
	Top Hit Acessian No.	7669505 NT	125 AF026029.1	125 AW812899.1	125 BE074267.1	25 BE074267.1	4758007 NT	26 X68735.1	8923056 NT	8923056 NT	6382078 NT	4504116 NT	126 AA160709.1	126 AA160709.1	126 X53941.1	7657038 NT	126 N34078.1	126 BE743922.1	126 T66998.1	126 AA460075.1	126 AB040958.1	126 AB040958.1	126 AF257737.1	126 AF257737.1	26 AU136463.1	126 AI806483.1	126 AB037715.1	126 AB037715.1	126 X16609.1	126 AA483368.1	4505424 NT
	Most Similar (Top) Hit BLAST E Value	1.0E-125		1.0E-125		1.0E-125	1.0E-126	1.0E-126	1.0E-126	1.0E-126	1.0E-128	1.0E-126	1.0E-126 /	1.0E-128	1.0E-126	1.0E-126		1.0E-126		1.0E-126	1.0E-126	1.0E-126	1.0E-126		17	1.0E-126	1.0E-126	1.0E-126	1.0E-126	1.0E-126	1.0E-126
	Expression Signal	1.74	4.84	1.92	3.58	3.58	1.48	1.45	1.17	1.17	. 1.48	0.72	7.54	7.54	1.09	1.6	1.74	0.81	0.68	3.22	4.2	4.2	1.02	1.02	0.62	0.69	0.78	0.78	2.55	66:0	0.87
	ORF SEQ ID NO:	37213	37218	37284	37397			28331	27804	27805	28059					29040		30413	31325	31887	L	31950	33157	33158	33375	33428	L			33907	Ш
	Exen SEQ ID NO:	23921	23927	23984	24087	24087	13529	13667	15087	15067	15318	15835	15836	15836	16373	16400	17515	17797	18412	18917	ļ	18973	20077	20077	20268	20319	L		20582		22346
	Probe SEQ ID NO:	11259	11265	11377	11486	11486	757	668	2344	2344	2605	3069	3070	3070	3620	3647	4783	5078	5616	6139	6197	6197	7399	7399	7602	7655	7778	7778	7887	. 8083	9696

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01/57275	_	7	7	T	<u>-</u>	7	Т	Т	Т	Т	7	T	T	11					<u>,,</u>	7	" "	<u></u>	mP 4	Ť	P	C.	Γ/(ŲS:	01/	000
Top Hit Descriptor		Human macrophage mannose receptor (MRC1) gene, exon 5	B02139138F1 NIH_MGC_46 Homo saplens cDNA clone IMAGE:4298240 5	001149404F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3502129 5	601577981F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3926885 5'	Homo saplens mRNA for casein kinase I epsilon, complete ods	Homo sapiens mRNA for caseln kinase l epsilon, complete cds	Inomo sapiens mRNA for casein kinase I epsilon, complete cds	Homo sapiens mRNA for caseln kinase I epsilon, complete cds	Home carles DNA for amyloid precursor protein, complete cds	Home collection of a myold precursor protein, complete cds	Homo conference intersectin short (soform (ITSN) mRNA, complete cds	Home colors iost on transformation LOT1 mRNA, complete cds	Homo septens uniquin specific protesse 8 (USP8) mRNA Homo septens leukocyte immunoglobulin-like receptor, subfamily A (with TM domain), member 4.11 ii DAAA	Homo sapiens leukocyte immunoalobulin-like racanter subfamilia / יינו באור 1965.	mRNA (with 1 M domain), member 1 (LILRA1),	Homo sapiens ribosomal protein L28 (RPL28) mRNA	Homo sapiens adlican mRNA, complete cds	Human mRNA for cytokeratin 18	2x42a02.r1 Scares_total_fetus_Nb2HF8_9w Homo sapiens cDNA clone IMAGE-78ang8 5	au80e06.y1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:789098 5'	TRIG15170 Q15170 TRANSCRIPTION FACTOR S-II-RELATED PROTEIN CONTAINS Alaman MEDOC	repeative element;	Homo sapiens delayed rectifier potassium channel subunit IsK mRNA, complete cde	Homo saplens neuroblastoma-amplified protein (LOC51594), mRNA	Homo sapiens neuroblastoma-amplified protein (LOC51594), mRNA	Homo sapiens cytochrome P450 retinaid metabolizing protein P450RAL-2 mRNA complete and	Homo sapiens RAD1 (S. pombe) homolog (RAD1) mRNA, and translated products	Homo sapiens chromosome 21 segment HS21C068	September 1911 and 111 binding protein (RYBP), mRNA
Top Hit Database Source	71/4	- 1	EST HUMAN		ESI HUMAN	Z	2 2	- N	- LA	Į.	Į.	FN	Į.	5		L _Z !		Z	Z	Т	PAGE 1	Too Too	7							
Top Hit Acession No.	M93198 1	1.0E-128 BE883175 4	1.0E-126 BF281680 1	1.0F-128 RF743022 4	1.0E-127 AR024507 4	1 0F-127 AB024607 4			T				827053	5803085 NT		5803065 NT	3	5	T	T			35188 4	7206030	7708239 N	5220	450004 NI	32	6912839	
Most Similar (Top) Hit BLAST E Value	1.0E-128IM	1.0E-128	1.0E-126 F	1.0E-128	1.0E-127	1 0E-197 A	1.0E-127 AB024597.1	1.0E-127 A	1.0E-127 D87675.1	1.0E-127 D87675.1	1.0E-127 AF114488.1	1.0E-127 U7	1.0E-127	1.0E-127	10,	1.0E-127	1 05-127 A5046505 4	1 0E-127 X12001 1	1 0E 127 A	1.0E-127 AA450131.1		1.0E-127 AW181207 1	1.0E-127 AF1	1.0F-127	1.0E-127	1.0F-127 AF2	1 0F-197	1.0E-127 A! 4	1.0E-127	
Expression Signal	1.27	2.38	5.47	7.17	8	4.63	4.71	4.71	3.55	3.54	2.03	1.37	1.08	2.44	2,70	8.02	273	3.04	-	1-1		1.21	0.7	23.74	23.74	0.94	4.35	1.92	1.26	
ORF SEQ ID NO:	36624	36892	37414	30413	25822	25623	25822	25623	25716	25717	26301	26330	27126	27515	27518	27661	27801	28068	28081	28082		29178	29465	29592	29693	29824	29926		29993	
Exen SEQ ID NO:	23384	23450	24102	17797	12982	12882	12982	12982	13075	13075	13830	13664	4430	14790	14790	14926	15084	15325	15338	15338		16543	16838	16968	16968	17198	17299	17325	17360	
Probe SEQ ID NO:	10693	10766	11501	12490	168	168	169	169	267	267	5	96	1686	2058	2058	2197	2341	2614	2626	2626			_						4625	

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Tap Hit Descriptor	201101.1 Soares melanccyte 2NbHM Homo sepiens cDNA clone IMAGE:291268 5' similar to SW:PIP6_PAT P10888 1-PHOSPHATIDYLINOSITOL-4,5-BISPHOSPHATE PHOSPHODIESTERASE DEI TA 1	John State Committee Commi	H capiers N.C.C.	Histories TOE11 ages over 5	Homo carlona laborata Late A (1700a)	Homo sapiene imminosite.	Homo sarions and April 10 September 3 (IGSF3), mRNA	Homo sapiens Dendrad conditions (DDC)	And conference Syllationine (FLOS), mRNA	OV3-BN0046-150300-124-144-DN04-2-1	Home engine On All III I BNUG40 Home saplens cDNA	Homo saptens Chediak-Higgshi syndrome 1 (CHS1), mRNA	form canisas consists and the contract of the	control secretary paraway component Sec31B-1 mRNA, alternatively spliced, complete cds	Homo sapiens secretory pathway component Sec31B-1 mRNA, alternatively splined	qm94h09.x1 NOL CGAP_Lu5 Homo sapiens cDNA clone IMAGE: 1896449 3'	Homo sapiens Chedlak-Higashi syndrome 1 (CHS1), mRNA	Homo sapiens similar to heat shock 70kD protein 9B (mortalin-2) (H. saplens) (LOC63184), mRNA	Fromo Sapiens similar to heat shock 70kD protein 9B (mortalin-2) (H. sapiens) (LOC63184), mRNA	60143478451 NIH MGC_/2 Homo saplens cDNA clone IMAGE:3919917 6	Homo sapiens mBNA for account of	Homo capiene mDNA for social 1	Homo seriens dans (or A E & Commercial Complete ods	21278127F1 NIH MAC 30 Um	Himan EALIND mandaged and the control suppliers of the IMAGE:3618622 5'	History TALLs	numan rAU1P pseudogene, trinucleotide repeat regions	nomo sapiens ribosomal protein S2 (RPS2) mRNA	Fromo sapiens chromatin-specific transcription elongation factor, 140 kDa subunit (FACTP140), mRNA	riumo sapiens mitty for KIAA1247 protein, partial cds
Top Hit Database Source	EST HUMAN	- LV	LZ LZ	Į.	Ę	Į.	L	L	Į	EST HUMAN	ď	Z				EST HUMAN	=		1 11 15 15 15	HIMAN	7			T HUMAN	T					
Top Hit Acession No.	N03547.1	4826863 NT		(84060.1	4504778 NT	11421595 NT	4826977 NT	11421914 NT	11421914 NT	96292.1	11427235	11427235 NT	74863.1				1142/235 NI	141/339 N	5415 4	5415.1	4597.1	Γ	Γ				4508740	440	033073.1	1
Most Similar (Top) Hit BLAST E Value	1.0E-127 W03547.1	1.0E-127	1.0E-127 X85764.1	1.0E-127 X84060.1	1.0E-127	1.0E-127	1.0E-127	1.0E-127	1.0E-127	1.0E-127 AWS	1.0E-127	1.0E-127	1.0E-127 AF27		1.0E-127 AF27	1.0E-12/ AI298932.1	1.05-12/	1 0E-127	1.0F-127 RF80	1.0E-127 BE89	1.0E-127 AB0	1.0E-127 AB024597.1	1.0E-127 AB011399.1	1.0E-128 BE385617.1	1.0E-128 U02523.1	1.0E-128 U02523 1	1 0F-128	1 OF 128	1.0E-128 AB033073.1	
Expression Signal	1.37	2.4	4.25	2.17	5.28	0.89	0.81	1.65	1.65	0.64	0.8	0.8	4.17	,	2.4	- 56	7 88	7 88	3.25	3.25	2.25	2.25	2.88	3.04	5.5	5.5	8.76	-	1.08	
ORF SEQ. ID NO:		31359	31428		31979	32332	32461	33461	33462	33470	34625	34626	35377	35378	35631	38101	37050	37051	37548	37547	25622	25623	31048	25873	. 27520	27521	27872		28802	
Exon SEQ ID NO:		18445	_	_1	_		_ 1	20348	20348	20355	21477	21477	22193	22103	22424	22883	23777	23777	24224	24224	12982	12982	24814	13233	14795	14795	14934	15165	16148	
Probe SEQ ID NO:	5620	2920	5713	6070	6229	658	6962	7884	1984	7691	8785	8785	9540	9540	9773	10241	11107	11107	11627	11627	12244	12244	12444	ģ.	2063	2063	2208	2446		

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Top Hit Descriptor	Homo sapiens prospero-related homeobox 1 (PROX1), mRNA	H. saplens gene for inter-alpha-trypsin inhibitor heavy chain H1, exon 12	601580466F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3929057 5'	601580466F1 NIH_MGC_9 Homo saplens cDNA clone IMAGE:3929057 5'	Homo sapiens phosphodiesterase 1C, calmodulin-dependent (70kD) (PDE1C), mRNA	7q86b10.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE: 3'	601503846F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3905794 57	Homo sapiens putative ABC transporter (WHITE2), mRNA	Homo saplens mRNA for KIAA0454 protein, partial cds	Homo sepiens mRNA for KIAA0454 protein, partial cds	Ins04a11.r1 NCI_CGAP_Ew1 Homo saplens cDNA clone IMAGE:1182620 similar to TR:G951338 G951338 CHROMOSOME SEGREGATION GENE HOMOLOG CAS.;	Homo sapiens glutamate receptor, lonotropic, N-methyl D-aspartate 2D (GRIN2D), mRNA	om68h08.s1 NCI_CGAP_GC4 Homo septens cDNA clone IMAGE:1552383 3' similar to gb:X54941 CYCLIN-INEPENDENT KINASES REGULATORY SUBLINIT 1 (HIMAN):	Home consistence and NAME for TEACHER (TEACHER)	Homo seprens minny for I nytoid protein (Trydold gene) An1277826F1 NIH MGC 20 Homo sepiens cDNA clone IMAGE 3818750 5	EST387380 MAGE recognished MAGE Homo equiene chwa	EST SON SON IN SET RESEQUENCES, INTACE TRAIN SEQUENCE CONTR.	Insulin-like growth tactor binding protein-2 inuman, placenta, Genomic, 1019 nt, segment 2 of 4]	insulin-like growth factor binding protein-2 (human, placenta, Genomic, 1019 nt, segment 2 of 4)	Novel human mRNA containing Zinc finger C2H2 type domains	Homo sapiens glutathione S-transferase theta 2 (GSTT2) and glutathione S-transferase theta 1 (GSTT1)	Homo saplens glutathione S-transferase theta 2 (GSTT2) and glutathione S-transferase theta 1 (GSTT1)	genes, complete cds	Homo saplens zinc finger protein 76 (expressed in testis) (ZNF76), mRNA	ZINC FINGER PROTEIN HZF10	ZINC FINGER PROTEIN HZF10	ZINC FINGER PROTEIN HZF10	Horno sapiens mRNA for KIAA1459 protein, partial cds	CMYA5 Human cardiac muscle expression library Homo sapiens cDNA clone 4151935 similar to CMYA5	ilk-mit Home contract CNN close 4454025 startler to CNANE	CM/A5 Human cardiac muscle expression library homo sapiens cUNA clone 4151935 similar to CM/A5 Cardiomyopathy associated gene 5
Top Hit Database Source	LN.	LN	EST_HUMAN	EST_HUMAN	ĮŅ.	EST_HUMAN	EST_HUMAN	LN	ΙN	ΙN	EST HUMAN	Į.	MAN LIMAN		NAME IN FOR	NAME OF THE PARTY	HOMAN	Z	Ľ.	NT	<u> Fi</u>		<u>۲</u>	LN LN	SWISSPROT	SWISSPROT	SWISSPROT	FZ	1	ES HOMAIN	EST_HUMAN
Top Hit Acesslon No.	11426673 NT	K69539.1	8 BE747981.1	1.0E-128 BE747981.1	11420965 NT	1.0E-128 BF224345.1	1,0E-128 BE614105.1	11545923 NT	1.0E-128 AB007923.1	1.0E-128 AB007923.1	1.0E-128 AA639198.1	11425254 NT	4 OE 428 A A 028050 4	100000 A	1.0E-128 AJ252060.1	A MOGEOUS A	1.0E-128 AW955290.1	S37722.1	537722.1	1.0E-129 AL096880.1	1 05 420 0 5240788 4		1.0E-129 AF240786.1	11418522 NT	214585	214585	214585	1.0E-129 AB040892.1		1.0E-129 AW /55254.1	1.0E-129 AW755254.1
Most Similar (Top) Hit BLAST E Value	1.0E-128	1.0E-128 X69539.1	1.0E-128	1.0E-128	1.0E-128	1.0E-128	1.0E-128	1.0E-128	1.0E-128	1.0E-128	1.0E-128	1.0E-128	1 00 1	1.01-120	1.05-128	1.01-120	1.0E-128	1.0E-129	1.0E-129 S37722.1	1.0E-129	100	22	1.0E-129	1.0E-129	1.0E-129	1.0E-129 Q14585	1.0E-129 Q14585	1.0E-129		1.0E-129	1.0E-129
Expression Signal	6.14	0.7	0.65	0.65	2.58	6.9	0.62	19:0	0.73	0.73	1.83	3.52	6	3.21	1.35	1 00	7.02	1.33	1.19	2.73	5	<u>i</u>	1.57	2.78	1.21	1.21	1.21	<u>4</u>		2.26	2.26
ORF SEQ ID NO:	29986	31147	31613	31614		32516	33089	33471	34276	34277	35903	36541			36628			25839		27154	77450		27159				28533			29611	29612
Exan SEQ ID NO:	17351	L.	L.	18672	19094	19493	20010	20356	21138	21138	22685	L			23390	L	_	13189		14456	09777		14460		15890	15890	15890	16885	L	16988	16988
Probe SEQ ID NO:	4618	5458	5886	5886	6324	6831	7327	7692	8446	8446	10037	10608	40840		10699		12117	118	404	1713	4747		1717,	1838	3125	3125	3125	4143		4247	4247

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	Top Hit Descriptor	Homo sapiens KVLQT1 gene	601449740F1 NIH MGC 65 Homo sapiens clurk cione invision de constant de consta	601449740F1 NIH MGC 65 Homo sapiens curva done inviace. Josephoro o	Homo saplens KVLQ I1 gene	Homo sapiens similar to ribosomal protein 320 (n. sapiens) (Locososty), mistra	Homo sapiens WSCR4 gene, exons 3 and 4	Homo sapiens WSCK4 gene, exons 5 and 4	Homo sapiens mKNA for KJAAU534 protein, partai cus	Homo sapiens soutile certifier tailing 21 (bigaine arion denisperce);	Homo sapiens solute carrier larinity z. (olganic anich darbore), montos (170702883)	ae91cU1.S1 Strategene scrizo di airi S11 noirio sapicita con a con con con con con con con con con con	#172907,r1 Sogres NnHwiru_S1 nome sapiets Cotto circle minoce. 1977 300	Homo sapiens similar to ribosomal protein 520 (n. sapiens) (Lococost), mistro	AU143115 Y/9AA1 Home sapiens cond clone in exhibit in the conditions and the conditions are conditional to the conditions and the conditions are conditional to the conditions are conditional to the conditions are conditional to the conditions are conditional to the conditions are conditional to the conditions are conditional to the conditions are conditional to the conditions are conditional to the conditional to the conditions are conditional to the conditional to	AU143115 Y/9AA1 Homo sapiens cluiva cigne 1797410 5	yq49c05.r1 Soares tetal liver spieen Tinn'L'S home sapiens con a cole minor. Too rate of the spiens of the spiens of the spient of the spiens	DKEZp782K171 rt 782 (synonym: hmel2) Homo saplens cDNA clone DKFZp762K171 5'	Down seriens hypothetical protein (HSPC242), mRNA	Homo saniens mRNA for KIAA1414 protein, partial cds	7001 34636 Fi NIH MGC 20 Homo sablens cDNA clone IMAGE:3346366 Fi	A01121005F1 NIH MGC 20 Homo sapiens cDNA clone IMAGE:3346366 5	Himan dene for cetalase (EC 1.11.1.6) exon 9 mapping to chromosome 11, band p13	Homo sapiens RET finger protein-like 1 antisense transcript, partial	and a source of the MGC 53 Homo saplens cDNA clone IMAGE:3685466 5	AN 343016F1 NIH MGC 53 Homo sapiens cDNA clone IMAGE:3685466 5	Homo satiens retinol dehydrogenase homolog isoform-1 (RDH) mRNA, complete cds	ANA ANA RETAIN MGC 53 Homo sapiens cDNA clone IMAGE:3685466 5	2017-2016 March 1 March 2 Marc	201343010FT INIT MICE STREET SOLVEN SOLVEN SOLVEN CON IMAGE: 3078731 5	U-n-r-streamy (V. enha 22.1 I shha RPM/4285-variant. C alpha 1) mRNA	Human I can receptor (V apria 42.1), v apria 10. million anno 10. million (V apria 44.4) China anno 10. million (C) NA Apria 20. million (C) NA Ap	CM4-CA0049-100200-51 1102 CA004-5 Form Capital Comments CDNA	10.00-0 10310-201139-201-211 C10318 Homo sapiens cDNA	
	Top Hit Database Source	П		T HUMAN			뉟	NT	LZ.	EX.	. 1	EST HUMAN	EST_HUMAN	LN L	EST HUMAN	EST HUMAN	NAME	TOWN TOWN	-1.	Z	NOTAL TOL	TOT LINAAN	NIMOLU ISE	E P	TOT LIMAN	EST TOWN	ESI HOMAIN	No.			EST HOMAN	LN.	EST HOMAN	EST HUMAN	ESI HUMAN
<u> </u>	Top Hit Acession No.					0820				11437282 NT	11437282 NT	1.0E-129 AA682200.1	1.0E-129 AA625526.1	11420850 NT	1.0E-129 AU143115.1	1.0E-129 AU143115.1	i i	183155.1	AL120739.1	IN ORGEO//	1.0E-130 AB03/835.1	30 BE2/5192.1	1.0E-130 BEZ/5192.1	X04092.1	1.0E-130 AJ010230.1	1.0E-130 BE564219.1	1.0E-130 BE564219.1	1.0E-130 AF240698.1	1.0E-130 BE564219.1	30 BE 564219.1	30 AW 503580.1	30 M97710.1	30 AW843993.1	30 AW363299.1	1.0E-130 AW 363289.1
	Most Similar (Top) Hit BLAST E Value	1.0E-129 A	1.0E-129 BE869983.1	1.0E-129 BE869993.1	1.0E-129 AJ006345.1	1.0E-129	1.0E-129 A	1.0E-129 A	1.0E-129 AB014534.1	1.0E-129	1.0E-129	1.0E-129 /	1.0E-129 /	1.0E-129	1.0E-129	1.0E-129		1.0E-129 H83155.1	1.05-1297	1.0E-130	1.0E-130	- {						1		1.0E-1	1.R-1	1.0E-1	.1.0E-1		
	Expression Signal	3.73	0.56	0.56	4.15	3.93	2.49	2.49	3.94	26.0	0.97	0.57	4	6.57	1.38	1.38		1.79	2.66	1.3			11.38	3.08	5.37	1.17			5.36		1.92	1.5			1.07
	ORF SEQ ID NO:	31742	32499	32500	32778	32844	Ì			35835	35838		37137	32844									27099			28290			•		5 29305	3 29428			7 30372
	Exon SEQ ID NO:	18781	19477	19477	19719	19779	20105	20105	20911	22627	22627	23169	23851	19779	24213	24213	1	- 1	24842	12901	13902	14407	ļ	l					15648	15648	16665	16798	17237	17757	17757
	Probe SEQ ID	9000	6816	6816	7027	0602	7428	7428	8217	9208	9979	10523	11186	11269	11615	11615		12104	12483	74	1147	1661	1661	1976	2773	2881	2881	3565	3750	3750	3915	4053	4501	5038	5038
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	Top Hit Descriptor	Human germilne immunoglobulin lambda light chain pseudogene (VII.1)	CM0-CN0045-170200-225-g03 CN0045 Homo sapiens cDNA	CM0-CN0045-170200-225-g03 CN0045 Homo sapiens cDNA	Homo saplens estrogen-responsive B box protein (EBBP), mRNA	Homo saplens solute carrier family 6 (neurotransmitter transmorter 1 -andina) mamber 7 (SI CA47) mBNA	Homo sabiens aurora-related kinase 1 (ARK1) mRNA complete cds	EST368312 MAGE resequences, MAGD Homo sapiens cDNA	Homo sapiens mRNA for KIAA1335 protein, partial cds	xd38e06.x1 NCI_CGAP_Ov23 Homo sapiens cDNA clone IMAGE:2595874 3'	Homo sapiens contactin 6 (CNTN6), mRNA	Homo sapiens contactin 6 (CNTN6), mRNA	Homo seplens hypothetical protein FLJ20208 (FLJ20208), mRNA	Homo sapiens hypothetical protein FLJ20208 (FLJ20208), mRNA	Homo sapiens glutamate receptor, metabotropic 5 (GRM5) mRNA	Homo saplens RET finger protein-like 1 antisense transcript, partial	zr58c04.r1 Soares_NhHMPu_S1 Homo sapiens cDNA clone IMAGE:667590 5' similar to TR:G222811 G222811 ALPHA 1 CHAIN OF TYPE XII COLLAGEN ;	z/58c04.r1 Soares_NhHMPu_S1 Homo sapiens cDNA clone IMAGE:667590 5' similar to TR:G222811	Homo sapiens checkpoint suppressor 1 (CHES1), mRNA	Homo sapiens hypothetical protein FLJ20371 (FLJ20371), mRNA	Homo sapiens hypothetical protein FLJ20371 (FLJ20371), mRNA	Homo saplens DCRR1 mRNA, partial cds	Homo sapiens DCRR1 mRNA, partial cds	Homo sepiens beta-tubulin mRNA, complete cds	Homo saplens Cdc42 effector protein 2 (CEP2), mRNA	Human heparin cofactor II (HCF2) gene, exons 1 through 5	Homo saplens RNA-binding protein S1, serine-rich domain (RNPS1), mRNA	Homo sapiens mRNA for multidrug resistance protein 3 (ABCC3)	Homo saplens mRNA for multidrug resistance protein 3 (ABCC3)	HUM516H08B Human placenta polyA+ (TFujiwara) Homo sapiens cDNA clone GEN-516H08 5	HUM516H08B Human placenta polyA+ (TFujiwara) Homo sapiens cDNA clone GEN-516H08 5	Human ribosomal protein L7 (RPL7) mRNA, complete cds
	Top Hit Database Source	Z	EST_HUMAN	EST HUMAN	Į.	Į.	Į.	EST HUMAN	N	EST HUMAN	N	IN	LN	LN	N.	NT TN	EST_HUMAN	PST HIMAN	-1.	LN	E	N	NT	N	NT	LN	LN-	LN	L	г	EST_HUMAN	П
	Top Hit Acession No.	10 X57825.1	1.0E-130 AW843875.1	1.0E-130 AW843875.1	11425446 NT	11416777 NT	AF0085	L	1	AW 103454.1	1.0E-130 11432889 NT	11432889 NT	8923197	8923197 NT	4504142 NT	1.0E-130 AJ010230.1	0.0E+00 AA228126.1	442281261	0.0E+00 4885136 NT	8923349 NT	8923349 NT	383327.1	0.0E+00 D83327.1	4F141349.1	5802997 NT	M58600.1	6857825 NT	117151.2	/17151.2			
	Most Similar (Top) Hit BLAST E Value	1.0E-130	1.0E-130	1.0E-130	1.0E-130	1.0E-130	1.0E-130	1.0E-130	1.0E-130	1.0E-130	1.0E-130	1.0E-130	1.0E-130	1.0E-130	1.0E-130	1.0E-130	0.0E+00	0.05	0.0E+00	0.0E+00	0.0E+00	0.0E+00 D83327.1	0.0E+00	0.0E+00	0.0E+00	0.0E+00 M58600.1	0.0E+00	0.0E+00 Y17151.2	0.0E+00 Y17151.2	0.0E+00 [0.0E+00 D78804.1	0.0E+00
	Expression Signal	0.55	0.81	0.81	0.75	2.62	0.45	2.39	1.64	1.25	0.51	0.51	1.72	1.72	2.67	1.56	1.9	- 6	1.02	0.72	0.72	6.7	6.7	17.04	1.19	0.82	4.22	0.76	0.76	3.04	3.04	9.76
	ORF SEQ ID NO:	32405	32587			32910		34553	34967		36340		37194	37195	37624		25445	25446		25454		١,		25468	25478	25481	25486	25512	25513			25516
	Exon SEQ ID NO:	19391	19557	19557	19570	19841	21274	21410	21802	22484	23109	23109	23904	23904	24298	15478	12832	12832	12834	12841	12841	12848	12848	12853	12861	12863	12867	12884	12884	12885	12885	12886
	Probe SEQ ID NO:	6629	6723	6723	6736	7154	8582	8718	9114	9833	10463	10463	11242	11242	11703	12759	4	4	7	14	14	20	ଷ	25	33	35	39	55	55	99	56	22

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| . Top Hit Descriptor | | er48e07x1 Jia bone marrow stroma Homo sapiens cDNA clone HRMsC ביימפיסים | or48e07x1 Jia bone marrow stroma Homo sapiens cDNA clone HRMsC or48e07x3 | Human van Willebrand factor pseudogene corresponding to exons 23 through 34 | Human von Willebrand factor pseudogene corresponding to exons 23 through 34 | Homo sapiens protein tyrosine phosphatase, non-recentor time substitute 4 / provides | Homo sapiens protein tyrosine phosphatase, non-receptor tope substrate 1 (PTPNS1) mRNA
 | Homo sapiens protein tyrosine phosphatase, non-receptor time substrate 4 (Prons.) mr. | Homo sapiens protein tyrosine phosphatase, non-receptor type substrate 1 (PTPNS1) mRNA
Homo sapiens amilioride hinding protein 1 (Sec. 1) | encoding mitochondrial protein, mRNA | Homo sapiens heterogeneous nuclear ribonucleoprotein A1 /HNRPA 11 BN A | Homo sapiens actin, beta (ACTB) mRNA | Human polyhomeotic 1 homolog (HPH1) mRNA, partial cds

 | HA1347 Human fetal liver cDNA library Homo saplens cDNA | Homo sapiens mRNA for KIAA1363 protein, partial cds | 1.septens nært gene (exon 2)
s38b05.x1 NCI_CGAP_Ut4 Homo sapiens cDNA cinne MAACE-2220022 01- " | MITOCHONDRIAL TRANSCRIPTION TERMINATION FACTOR PRECURSOR. : 638b05x1 NOI CGAP UM Home septems china class and a cl | AITOCHONDRIAL TRANSCRIPTION TERMINATION FACTOR PREMISSOR 13 SIMILAR TO TRANSCRIPTION TERMINATION FACTOR PREMISSOR | 301h09.r1 Soares melanocyte 2NbHM Horno saplens cDNA clume IMAGE: 270012 g.
 | y01h09.r1 Soares melanocyte 2NbHM Homo saplens cDNA clone IMAGE 270n17 F | formo sapiens polymerase (RNA) il (DNA directed) polypeptide A (220kD) (POI R2A) mBNA | iomo sapiens polymerase (RNA) II (DNA directed) polypeptide A (220kD) (POLR2A) mRNA | assg04.r2 Stratagene fetal spleen (#937205) Homo sapiens cDNA clone IMAGE-68310 F | a83g04.r2 Stratagene fetal spleen (#937205) Homo saplens cDNA clone IMAGE:88310 5
 | 4 | | | d unknown genee | |
E:345201 5' sImilar to |
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Source | 1 | ES HOMAN | ES L'HOMAN | Z | Z | LN. | L
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Value | 0.0F±00 | 0.05+00 | 0 0F+00 | 0 0F+00 | 0.0F±00 | 0.05-100 | 0.01
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0.0E+00 W73 |
| Expression
Signal | 12.55 | 12.55 | 1.5 | 0.91 | 10.36 | 10.36 | 10.18
 | 10.18 | F | 15.75 | 17.68 | 23.28 | 3.51

 | 172 | 1.33 | 0.89 | 1 47 | 1.48 | 1.48
 | 4.38 | 4.38 | 1.29 | 1.29 | 8.88
 | 2.1 | 25.83 | 1 | 1.15 | 0.88 |
5.4 |
| ORF SEQ
ID NO: | | | 25524 | | 25536 | 25537 |
 | ١. | 25544 | - | 25553 | 25556 | 25562

 | 25563 | 25566 | 25572 | 25572 | 25573 | 25574
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25614 |
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NO: | Ш | | | | | 12900 | ΙI
 | 12900 | 12906 | 12907 | 12916 | 12919 | 12925

 | 12926 | 12928 | 12935 | 12935 | 15513 | 15513
 | 12943 | 12943 | 12950 | 12950 | 12964
 | 12968 | 12970 | 12973 | 12975 | 12975 |
12976 |
| Probe
SEQ ID
NO: | 59 | 29 | 8 | 65 | 2 | 73 | 76
 | 76 | 80 | 84 | 90 | 93 | 66

 | 100 | 105 | 113 | 114 | 115 | 115
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	Тор Hit Descriptor	A(10 1)Taylor (100)	LAV3-H10457-140200-088-d04 HT0457 Homo sapiens cDNA	QV3-HT0457-140200-088-d04 HT0457 Homo sapiens cDNA	Homo sapiens zinc finger protein mRNA, complete cds	Homo sapiens chromosome 21 segment HS21C002	Homo sapiens chromosome 21 segment HS21C002 bb24e12.y1 NIH MGC 14 Homo sepiens cDNa chros IMACE coconcy ct"	CE22631;	bb24e12.y1 NIH_MGC_14 Homo sapiens cDNA clone IMAGE:2963854 5' similar to WP:Y57A10A 7	1 1007710	India seprens mikina for KIAA0784 protein, partial cds	Train septens mitty for KIAA0784 protein, partial cds	Hams control of the control (ACTGP9) pseudogene	Home series Of CL tumor antigen ser4-3 mRNA, complete cds	normo saprens CTCL tumor antigen se14-3 mRNA, complete cds	namo sapiens chramosome X MSL3-2 protein mRNA, camplete cats	nomo sapiens chromosome X MSL3-2 protein mRNA, complete cds	tqu4108.x1 NCI_CGAP_Ut3 Homo saplens cDNA clone IMAGE:2207847 3' similar to gb:J03191 PROFILIN I (HUMAN);	tq04f08.x1 NCI_CGAP_Ut3 Homo saplens cDNA clone IMAGE:2207847 3' similar to che insator peoper in the	(HUMAN);	Homo saplens DNA mismatch repair protein (MLH3) gene, complete cds	Homo sapiens ribosomal protein L31 (RPL31) mRNA	Homo sapiens TADA1 protein mRNA, complete ods	Homo sapiens mRNA for KIAA0721 protein, partial cds	riomo sapiens mRNA for KIAA0721 protein, partial cds	ivius musculus testis-specific protein, Y-encoded-like (Tspyl), mRNA			IRNA	2001		tor (lang form)		nono septens 1-ceil lymphoma invasion and metastasis 1 (TIAM1) mRNA
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Homo sapiens myeloid/lymphoid or mixed-lineage leukemla (trithorax (Drosophila) homolog); translocated to, qy81h05.x1 NCI_CGAP_Bm25 Homo saplens cDNA clone IMAGE:2018457 3' similar to gb:X54199 PHOSPHORIBOSYLAMINE—GLYCINE LIGASE (HUMAN); Homo sapiens potassium inwardly-rectifying channel, subfamily J, member 15 (KCNJ15) mRNA
Homo sapiens mRNA for KIAA1019 protein, partial cds
Homo sapiens mRNA for KIAA1019 protein, partial cds
Homo sapiens ribosomal protein S5 (RPS5) mRNA
zv18c06.r1 Scares_NHHMPu_S1 Homo sapiens cDNA clone IMAGE:753894 5'
Homo sapiens SON DNA binding protein (SON) mRNA
Homo sapiens SON DNA binding protein (SON) mRNA Homo sapiens GA-binding protein transcription factor, alpha subunit (60kD) (GABPA), mRNA Human mRNA for KIAA0184 gene, partial cds Human mRNA for KIAA0184 gene, partial cds Homo sapiens potassium inwardly-rectifying channel, subfamily J, member 15 (KCNJ15) Homo sapiens hormonally upregulated neu tumor-associated kinase (HUNK), mRNA Homo sapiens hormonally upregulated neu tumor-associated kinase (HUNK), mRNA Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1) mRNA Homo sapiens T-cell lymphoma Invasion and metastasis 1 (TIAM1) mRNA AU134963 PLACE1 Homo sapiens cDNA clone PLACE1000899 5' Homo saplens T-cell lymphoma Invasion and metastasis 1 (TIAM1) mRNA Homo sapiens intersectin short isoform (ITSN) mRNA, complete cds Top Hit Descriptor IL2-CT0031-181199-020-B03 CT0031 Homo saplens cDNA RC2-CT0320-300100-016-a09 CT0320 Homo saplens cDNA Human zinc finger protein zíp31 (zf31) mRNÁ, partial cds Homo saplens hypothetical protein (LOC51250), mRNA Homo saplens mRNA for KIAA1019 protein, partial cds Homo saplens X-box binding protein 1 (XBP1) mRNA Homo sapiens chromosome 21 unknown mRNA Homo sapiens chromosome 21 unknown mRNA Homo sapiens chromosome 21 unknown mRNA Homo sapiens DCRR1 mRNA, partial cds Homo sapiens DCRR1 mRNA, partial cds Homo sapiens DCRR1 mRNA, partial cds Single Exon Probes Expressed in Brain (MLLT4) mRNA Top Hit Database EST_HUMAN HUMAN Source HUMAN EST_HUMAN EST 눋 7657213 NT 5174574 NT z z Ż 4507152 Top Hit Acession 4507500 7706028 0.0E+00 AB028942.1 0.0E+00 4506728 4557029 4507152 4507500 7657213 4503854 4827057 4507500 0.0E+00 D83327.1 0.0E+00 D83327.1 0.0E+00 AW845293.1 0.0E+00 AB028942.1 ġ AA480002.1 AF114488.1 0.0E+00 Al363014.1 0.0E+00 AW754180.1 0.0E+00 AF231919.1 0.0E+00 AF231919.1 0.0E+00 AF231919.1 0.0E+00 AU134963.1 0.0E+00 AB028942. 80006.1 0.0E+00 (Top) Hit BLAST E 0.0E+00 0.0E+00 0.0E+00/ 0.0E+00 0.0E+00 0.0E+00 Most Simila 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 Value 6.65 6.65 4.97 4.63 3.76 18.93 3.28 0.78 2.33 16.53 3.842 Expression 623 2.33 1.83 Signal 25713 25726 ORF SEQ 25727 25735 25744 25745 25746 25746 25750 25759 25759 25775 25780 25784 ÖΝQ 25771 25786 25792 25850 25813 SEQ ID 13071 13084 13083 13103 13085 13104 13106 13106 Exa 13093 15540 13105 13122 13136 13139 13142 13122 13146 13148 13154 Š 15541 13152 13152 13151 13183 13204 13170 Probe SEQ ID 283 277 277 278 288 288 300 302 306 319 338 320 341 343 346 348 353 383 367

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Top Hit Descriptor	Homo sapiens IgG Fc binding protein (FC(GAMMA)BP) mRNA	Homo saplens IgG Fc binding protein (FC(GAMMA)BP) mRNA	Homo sapiens IgG Fc binding protein (FC(GAMMA)BP) mRNA	Homo sapiens IgG Fc bInding protein (FC(GAMMA)BP) mRNA	Homo sapiens IgG Fc blnding protein (FC(GAMMA)BP) mRNA	Homo saplens IgG Fc binding protein (FC(GAMMA)BP) mRNA	Homo sapiens IgG Fc binding protein (FC(GAMMA)BP) mRNA	Homo sapiens igG Fc binding protein (FC(GAMMA)BP) mRNA	H.sapiens gene for RNA pol II largest subunit, exons 23-29	H.sapiens gene for RNA pol II largest subunit, exons 23-29	H.sapiens gene for RNA pol II largest subunit, exons 23-29	H.sapiens gene for RNA pol II largest subunit, exons 23-29	Homo sapiens ribosomal protein L19 (RPL19) mRNA	yg09a02.r1 Soares Infant brain 1NIB Homo sapiens cDNA clone IMAGE:31652 5	Homo sapiens phosphoribosylglycinamide formyltransferase, phosphoribosylglycinamide synthetase,	phosphoribosylaminoimidazole synthetase (GART) mRNA	Homo sapiens ribosomal protein S5 (RPS5) mRNA	Homo saplens mRNA for KIAA1019 protein, partial cds	Homo sapiens SON DNA binding protein (SON) mRNA	Homo sapiens SON DNA binding protein (SON) mRNA	Mus muscufus fruncated SON protein (Son) mRNA, complete cds	Homo sapiens Interferon gamma receptor 1 (IFNGR1) mRNA	EST27054 Cerebellum II Homo sapiens cDNA 5' end	601111520F1 NIH_MGC_16 Homo saplens cDNA clone IMAGE:3352348 5	Homo sapiens 5-hydroxyfryptamine (serotonin) receptor 1B (HTR1B) mKNA	Homo sapiens 5-hydroxytryptamine (serotonin) receptor 1B (HTR1B) mRNA	Homo sapiens keratin 18 (KRT18) mRNA	Homo sapiens keratin 18 (KRT18) mRNA	Homo sapiens chromosome 21 segment HS21C046	Hamo sapiens chromosome 21 segment HS21C046	Homo sapiens chromosome 21 segment HS21C046	Homo sapiens mRNA for KIAA1209 protein, partial cds	AU132898 NT2RP4 Homo sapiens cDNA clone NT2RP4000837 5'	601274951F1 NIH_MGC_20 Homo saplens cDNA clone IMAGE:3615766 5'
Top Hit Database Source	LN	TN	TN	TN	TN	LN	LΝ	NT	LN	NT	L	LN	TN	EST_HUMAN		TN	NT	LN	TN	NT	NT	IN	EST_HUMAN	EST_HUMAN	L	۲	IN	TN	LN	NT	INT	TN	EST_HUMAN	EST_HUMAN
Top Hit Acessian No.	4503680 NT	74870.1			4870.1	4506608 NT	17795.1		4503914 NT	4506728 NT	8028942.1	4507152 NT	4507152 NT	F193607.1	4557879 NT	0.0E+00 AA324262.1	3E254447.1	4504532 NT	4504532 NT	4557887 NT	4557887 NT	4L163246.2	0.0E+00 AL163246.2	0.0E+00 AL163246.2		0.0E+00 AU132898.1	0.0E+00 BE385144.1							
Most Similar (Top) Hit BLASTE Value	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00 X	0.0E+00	0.0E+00 X74870.1	0.0E+00 X7	0.0E+00	0.0E+00 R		0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00 AI	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
Expression Signal	1.58	2.49	2.49	1.17	1.39	1.39	2.77	0.84	1.35	1.35	1.07	1.07	28.13	1.5		1.31	3.18	3.93	5.45	5.45	4.02	1.99	2.01	76.0	3.15	3.15	1.23	1.23	2.64	9.28	9.28	3.48	1.97	2.68
ORF SEQ ID NO:	25816	25817	25818	25819	25820	25821	25822	25823	25824	25825	25824	25825		25435		25851		25852	25853	25854		25865			25879	25880		25889	25895					
Exon SEQ ID NO:	13172	13173	13173	13174	13175	13175	13176	13177	13178	13178	13178	13178	13182	12822		13205	13206	13207	13208	13208	13209	13219	13224	13226	13241	13241	13248	13246	13257	13258	13258	13286	13268	13276
Probe SEQ ID NO:	388	387	387	388	389	389	380	391	392	392	393	393	397	411		419	420	421	422	422	423	433	438	439	455	455	194	461	471	472	472	484	483	491

Page 473 of 536 Table 4 Single Exon Probes Expressed in Brain

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	Top Hit Descriptor	PM0-DT0065-130400-002-c06 DT0065 Homo sapiens cDNA	Novel human gene mapping to chomosome 1	Homo sapiens PC326 protein (PC326), mRNA	IL2-FT0159-070800-120-F07 FT0159 Homo saplens cDNA	Homo sapiens chromosome 21 segment HS21C010	QV2-BT0635-160400-142-h05 BT0635 Homo sapiens cDNA	601764858F1 NIH_MGC_53 Home saplens cDNA clone IMAGE:3996998 5'	Homo saplens mRNA for KIAA1476 protein, partial cds	Homo sapiens transcription elongation factor B (SIII), polypeptide 1-like (TCEB1L) mRNA	Homo sapiens guanine nucleotide binding protein (G protein), alpha 11 (Gq class) (GNA11) mRNA	Homo sapiens guanine nucleotide binding protein (G protein), alpha 11 (Gq class) (GNA11) mRNA	Homo sapiens anillin (LOC54443), mRNA	Homo sapiens anillin (LOC54443), mRNA	Homo sapiens X-linked anhidrottic ectodermal dysplasia protein gene (EDA), exon 2 and flanking repeat	regions	UI-H-BI1-acb-h-04-0-UI.s1 NCI_CGAP_Sub3 Homo sapiens cDNA clone IMAGE:2713951 3'	Homo sapiens RGH1 gene, retrovirus-like element	Homo sapiens ubiquinol-cytochrome c reductase, Rieske iron-sulfur polypeptide 1 (UQCRFS1), nuclear gene	encoding mitochondrial protein, mRNA	Human apolipoprotein A-i (ApoA-i) gene, exon 1	601822627F1 NIH_MGC_75 Homo sapiens cDNA clone IMAGE:4045447 5'	Homo sapiens hypothetical protein FLJ20701 (FLJ20701), mRNA	Homo sapiens hypothetical protein FLJ20701 (FLJ20701), mRNA	Homo sapiens acetyl-Coenzyme A carboxylase beta (ACACB), mRNA	Homo sapiens Smad- and Olf-interacting zinc finger protein mRNA, partial cds	Homo saplens Smad- and Olf-interacting zinc finger protein mRNA, partial cds	Homo sapiens NOD1 protein (NOD1) gene, exons 1, 2, and 3	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA	zt60c07.r1 Soares_test(s_NHT Homo sapiens cDNA clone IMAGE:726732 5'	Homo saplens RGH2 gene, retrovfrus-like element
	Top Hit Database Source	EST_HUMAN	LN	IN	EST_HUMAN	ΤN	EST_HUMAN	EST_HUMAN	IN	LN	LN	IN	NT	LN L		۲	EST_HUMAN	NT		LN	LNT	EST_HUMAN	IN	ΤN	NT	TN	ΙN	LΝ	IN	TN	NT	NT	NT	EST_HUMAN	LV.
	Top Hit Acession No.	00 AW938825.1	0.0E+00 AL117233.1	8923955 NT	00 BF373403.1	1L163210.2	0.0E+00 BE081527.1	0.0E+00 BF028005.1	00 AB040909.1	E006030 NT	4504036 NT	4504036 NT	R923831 NT	8923831 NT		00 AF003528.1	4W135324.1	0.0E+00 D10083.1		5174742 NT	104066.1	00 BF104898.1	8923631 NT	8923631 NT	4501854 NT	00 AF221712.1	00 AF221712.1	00 AF149773.1	6806918 NT	6806918 NT	6806918 NT	6806918 NT	96918	3.1	00 D11078.1
	Most Similar (Top) Hit BLAST E Value	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00/	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00		0.0E+00	0.0E+00	0.0E+00		0.0E+00	0.0E+00 J04066.1	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
	Expression Signal	1.11	1.33	1.27	0.77	5.37	1.29	1.14	1.68	27.68	4.33	4.33	76.0	26.0		5.82	1.89	8		2.63	7	1.83	0.98	0.98	0.76	1.15	1.15	3.18	1.2	3.83	3.83	0.92	0.82	1.35	10.1
	ORF SEQ ID NO:		25913	25914				L									25958			25982			25998			26008		L			26023	26024		26034	
	Exen SEQ ID NO:	15543	13278	13279	13283	L		13302	13308		13312		13314	13314		13318	13326	13336		13353		1	•			13378		13387	13390		13391	13392			13403
	Probe SEQ ID NO:	492	494	495	499	508	513	518	524	527	528	528	530	530		535	543	553		572	585	88	290	290	595	800	900	609	612	613	613	614	614	620	624

Page 474 of 536 Table 4

W	0 01/57275		-7			_				_	_										(MMP	245		*Asset *		F	<u>C</u>	T /	US	01	/00)66	7
Single Exon Probes Expressed in Brain	. Top Hit Descriptor	2h51b04.r1 Soares fetal liver_spleen_1NFLS_S1 Homo sepiens cDNA clone IMAGE 415667 51 similar to	zh51b04.r1 Soares_fetal_iiver_spleen_1NFLS_S1 Homo saplens c-DNa_chas_MAXOE_A45557_1	9b.A21187 ALPHA-2-MACROGLOBULIN PRECURSOR (HUMAN)	Homo sapiens novel SH2-containing protein 3 (NSP3) mRNA	Homo sapiens glutamate receptor, ionotropic, N-methyl D-aspartate 2B (GRIN2B) mRNA	Homo sapiens CCAAT-box-binding transcription factor (CBF2) mRNA	riuman neutral amino acid transporter (ASCT1) gene, expn 8	namo sapiens sodium/calcium exchanger Isoform NaCa3 (NCX1) mRNA, complete cds	Trumo saprens sodium/calcium exchanger Isoform NaCa3 (NCX1) mRNA, complete cds	como septem protein kinase, X-linked (PRKX) mRNA	nomo sapiens protein kinase, X-linked (PRKX) mRNA	Human endogenous retrovirus pHE.1 (ERV9)	Homo sepiens high-mobility group (nonhistone chromosomal) protein 1 (HMG1) mRNA	riomo septens mRNA for KIAA1089 protein, partial cds	Homo sapiens similar to rat Integral membrane giyocoprotein POM121 (POM121L1), mRNA	INTERFERON-INDITION FOR DEPT. 1 Homo septens cDNA clone IMAGE:1129633 3' similar to gb:X57352	Hyman von Willebrand factor gene aware 23 theory	duman von Willahrend faster geste.	Corno seniente TNE coorde series excess 23 infough 34	Homo sapiens AI R. like provide meny	Homo saplens Al Ruike protein month.	Homo saplens hypothetical protein FI 121634 (FI 124634)	TCAAP1D0779 Pediatric acute myelogenous leukemia call (FAB M1) Baylor-HGSC project-TCAA U	satiens cDNA clone TCAAP0779	Homo sapiens MHC class I antigen (HLA-G) mRNA, HLA-G) allele, complete arti	Homo sapiens MHC class I antigen (HLA-G) mRNA, HLA-G1 allele, complete cds	Homo sapiens chloride channel CLC4 (CIC4) mRNA, complete cds	Human, plasminogen activator inhibitor-1 gene, exons 2 to 9	Human, plasminogen activator inhibitor-1 gene, exons 2 to 9	Homo saplens zinc finger protein 212 (ZNF212), mRNA	Homo sapiens mRNA for repressor protein, partial cds	601445647F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3849803 5
gle Exon Pro	Top Hit Database Source	HST HIMAN	NOMO TO A	EST HUMAN	Z	- L	- N	F		F							EST HUMAN	T	L'N			Z			HUMAN							10000	ES HUMAN B
Sin	Top Hit Acession No.	W78811.1	M78944 4	100111	N 979099	5034824 NIT	05235 4	F108389 1		76947	4828947INT		AFOAAOA	302001	7657460	/00/408/N				5032192 NT	264750.1	264750.1	11545800 NT			T	T			1 N SO SO SO SO SO SO SO SO SO SO SO SO SO	0912/49		7
	Most Similar (Top) Hit BLAST E Value	0.0E+00	00+30	00+100	001100	0.0	0.0E+00.0	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00 X57147 1	00+100	0.0E+00.A	0 0F+00	2010	0.0E+00 A/	0.0E+00 M60675.1	0.0E+00 M60675.1	0.0E+00	0.0E+00 AF264750.1	0.0E+00 AF	0.0E+00	0.0F+00 BE 241577.4	0.0E+00/AF228990 2	0.0E+00.4E22e00.2	0.0E+00 AF4704004	0.0E+00 1007644	0.0E+00 303784.1	0.01-00	0.0E+00 D30612 1	0.0E+00 BF860735 1	
	Expression Signal	0.76	0.76	4.99	2.88	1.17	2.53	1.07	1.07	4.98	4.98	1.15	10.4	4.49	2.43		9.24	4.34	4.34	1.71	4.95	4.95	12.29	2.12	1.07	1.07	2.41	107	1.07	138	1.88	3.01	
	ORF SEQ ID NO:	26041	26042		26054		26061	26064	26065	26070	26071		26084	26088	26101		26115	20119	707.07	26129	26135	26136	26139	26146	26170	26171	26172	26175	26176	26177	26179	26180	
	Exan SEQ ID NO:	13407	13407	13410	13417	13419	13422	13426	13426	13431	13431	15547	13443	13448	13456		13468	12/2	2 3	2481	3 5	8 5	3408	13493	13512	13512	13513	13516	13516	13519	15551	13521	
	Probe SEQ ID NO:	628	628	831	638	640	8	647	8	833	883	929	667	672	83	Ę	388	8 8	3 8	3 5	712	7 / 1		719	739	739	740	743	743	746	LI	749	

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Table 4

VC	01/57275		Т	Ť	7	<u>'</u>	Т	Т	Т	Т	Т	Т	Т	Т	Т	Т	Т	T-	_	Т	Т	<u>.</u>	··	T	-	7 '*	T	<u></u>	P	<u>C</u>]	<u>[/[</u>	ĮS(1/	000	667
Chiga Lyones Expressed in Brain	Top Hit Descriptor		M59908.r1 Soares breast 2NbHBst Homo sapiens cDNA clone IMAGE:154046 5	Homo saplens splicing factor 3a, subunit 1, 120kD (SF3A1), mRNA	Homo sapiens gene for AF-6, complete cds	Homo sapiens KIAA0170 gene product (KIAA0170), mRNA	Human mRNA for KIAA0184 gene, partial cds	Human mRNA for KIAA0184 gene, pertial cds	n.sepiens mixiva for interferon alpha/beta receptor (long form)	Home sapiens mKNA for KIAA0910 protein, partial cds	Home suprens mKIVA for KIAA0910 protein, partial cds	Homo sapiens Desirentin (PCNT) mRNA	Homo seniers harmanall	Homo sapiens hormonally uncomited neu tumor-associated kinase (HUNK), mRNA	Homo seriens address:	Homo sapiens serine through the channel (sk-related family, member 1 (KCNE1) mRNA	Homo septens serine-uneonine protein kinase (MNBH) mRNA, complete cds	Home capiese OA bladis	Homo sapiens T.cell home have a feet of the sapient (BOKD) (GABPA), mRNA	Homo sanians T. cell lymphona lineasion and metastasis 1 (TIAM1) mRNA	Home series 1 -ceil juliphorma invasion and metastasis 1 (TIAM1) mRNA	Homo saniens mBNA for k1 A A A A A A	denote regions and the Art of the Profession and the Art of the Ar	Home septicing minuted for KIAA1019 protein, partial cds	Home suppers Solve Division protein (SON) mRNA	Homo septens ifformation of the septent of the sept	United September Indoording September 20 (KPS5) mRNA	nomo saplens mKNA tor KIAA0910 protein, partial cds	Fromo sapiens mRNA for KIAA0910 protein, partial cds	njobd07.51 NCI_CGAP_Pr10 Homo saplens cDNA clone IMAGE:997453	njoodu7.51 NCI_CGAP_Pr10 Homo saplens cDNA clone IMAGE:997453	ouzusabret NIH_MGC_83 Homo sapiens cDNA clone IMAGE:4249915 5'	House Septens normonally upregulated neu tumor-associated kinase (HUNK), mRNA	namo sapiens hormonally upregulated neu fumor-associated kinase (HUNK), mRNA	Homo sapiens homonally upregulated neu tumor-associated kinase (HUNK), mRNA
שובן ווטאין פיני	Top Hit Database Source	100	ESI HUMAN			=		E L	FIX							LZ	LZ.	-												NAW I	NAME OF THE PERSON AND THE PERSON AN	NAMOL			
	Top Hit Acession No.	BA8015 4	502208	AR01130	1900	280008	38008 1		0.0E+00 AB0207171	Ţ.	4478	4507500 NT	7657213 INT	7657213 NT		1F108830.1	108830.1	4503854 NT	4507500 NT	4507500 NT	0.0E+00 AF027153.1 NT		0.0E+00 AB028942.1 NT	7152	02894	4506728	B020717 4 NIT	T	T		T	7213	7857213 NT	7657213 NT	7857213 NT
	Most Similar (Top) Hit BLAST E Value	0.05+00	0 0F+00	0 0E+00	0 0F+00	0.05+00	0 0E+00	0.0E+00	0.0E+00/	0.0E+00/	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00 AF	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00 A	0.0E+00	0.0E+00 A	0.0E+00	0.0E+00 AB	0.0E+00	0.0E+00 AB020717 4	0.0E+00/AB020717 4	0.0F+00 AA533272 4	0 0F+00 A	0.0E+00 RF677694 1	0.0E+00	0.0E+00	0.0E+00	0.0E+00
	Expression Signal	3.51	2.4	2.07	234	1,18	1.18	2.13	5.97	5.97	9.88	11.63	1.96	4.28	2.81	1.39	1.39	1.58	2.09	2.09	1.32	4.62	4.62	9.56	4.34	8.0	2.2	2.2	2.45	245	9.44	1.94	1.94	3.31	3.31
	ORF SEQ ID NO:	26183	26184	26192	26196	26208	26209	26213	26217	26218	26222		26242	26243	26245	26251	26252	26257	26262	26263		26274	26275	26276	26277	26278	26281	26282	26283	26284	_	26285	26286	26287	26288
	SEQ ID NO:	13524	13525		13537	13547	13547	13552	13556	13556	13560	13561	135/7	13578	13580	13585	13585	13590	13583	13593	13600	13604	13604	13605	13606	13607	13611	13611	13612	13612	13613	13617	13617	13618	13618
	Probe SEQ ID NO:	752	753	761	764	775	775	780	ğ	\$	200	2 3	3			844	844		823	3	<u></u>	200	834	32	836	837	841	841	842	842	843	847	84		848

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W	'O	01/	<u>572</u>	75			Т	7	Г	_		Т-	_	_	_	T	_	_	_	_	_	_	_		н	4ore	_17	_	4,,,,,	tur.	. F	PC.	T/I	UŞ	01/	′ <u>0</u> 0	66	7
Table 4	Charles Expressed in Brain			Top Hit Descriptor		Homo sapiens chromosame 21 segment HS21 Chan	QV0-BT0703-280400-2/1-011 BT0703 Home 2011	QV0-BT0703-280400-211-g11 BT0703 Home sanions - 2814	Homo saplens chromosome 21 segment HISAI CARA	Homo sapiens laminin receptor 1 (67kh phacamal	Homo sapiens laminin receptor 1 (67kh, rikesamul	Homo sapiens alpha-1-antichymothorsin presumes - Phys.	Homo sapiens kallistatin (PI4) gene, exms 1.4 completed.	Homo sapiens of cardiac alpha-myosin heavy cheir	Homo saplens of cardiac alpha-myosin heavy chair acco	Homo sapiens mRNA for KIAA0994 protein martial add	Homo sapiens mRNA for KIAA0994 protein nartiel 242	Human ras inhibitor mRNA, 3' end	Human ras inhibitor mRNA, 3' end	Human ras inhibitor mRNA, 3' end	Homo sapiens thyrotrophic embryonic fector (TEE)	Homo sapiens thyrotrophic embryonic factor (TEE)N	os98e03.s1 NCI_CGAP_GC3 Homo saplens CDNA Appa IMACE 252	os98ed3.s1 NCI_CGAP_GC3 Homo sapiens cDNA clone IMAGE:1613404 3	O POST CALL IN A A A A A A A A A A A A A A A A A A	Homo sapiens michtal 4: 1995 protein Misk2 interacting nuclear target (MINT) homolog (KIAA0930) michtal	PM2. GNOW A DESCRIPTION OF THE PM2. COMPLETE COM	PM2-GN0014-050000 001 00 GN0014 Homo sapiens cDNA	PM2-GN0014-050ann-004-492 CN102-4-1	Homo sabiens nartial of for room of the control of								
nole Evon D	שופי ביפו			Source		Ł	EST HUMAN	EST_HUMAN	L.	L	L	FN	Į.	Z	L L		Z	2	Z	Z	5	-	HOMAN	EST HOMAN		-	EST HUMAN		Т									
Ö	5		op Hit Acession	į		L 103203.2	2E U89592.1	1 162202.1	3	4504958 NT	4958	89747.1				23244.4	1004		3,8		4507430 NT	450/430	040.1	9	7657266 NT	030566.1 NT	Г		7.	207.1 NT	207.1 NT	4757969		2			1170 3 NT	200
		ᇤ	BLASTE	Value	001300	2001300	O DE LOG DE	0.0E+00 BEC	001100	0.05+00	450 A COSTO	O OFFOOT 39.	0 0F+00 720656 4	0.0F+00.720858 4	0.0E+00 ABO	0.0E+00 ABO	0.0E+00 M37	0.0E+00 M37	0.0E+00 M37	O OF TOO	00-100	0.0E+00 A100	0.0E+00 A1004		·0.0E+00	0.0E+00 AB030566.1	0.0E+00 BF366974.1	0.0E+00 BF366974.1	0.0E+00 BF366974.1	U.UE+00 X52207.1	0.0E+00 X52	0.05+00	0.0E+00 U83668 1	0.0E-100 U83868.1	0.0E+00 063668.1	0.0E+00 AF108400.4	0.0E+00 AF111	
		Fynreceion	Signal	-	0.91	2.57	257	6.48	8 4	8.49	121	1.78	1.05	1.05	2.98	2.98	1.19	9.95	0.9	2.18	2.18	3.38	3.38		9.49	3.18	1.11	-1	1.13	80.	80.0	- F.	20.5	1				
		ORF SEO			26311	26316	26317	26326			26332	26333	26336	26337	26356	. 26357	26362	26363	26364	26365	26366	26373	26374		20375	70007	18007	28302	28304	26395	26402	26410	26411	26411		_	26416	
		Exon	_		13640	13647		13657	13666	13666	13668	13669	13672	13672	13693	13693	13698	13699	13700	13701	13701	15556	15556	10700	13740	13707	13707	13727	13728	13728	13737	13748	13749	13749	13752	13752	13755	
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						-									_1.		_L	_i_	_L	_L					1		L	L	L	L,					1	_	_	

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	Top Hit Descriptor	Homo sapiens 14q32 Jagged2 gene, complete cds; and unknown gene	Homo sapiens 14q32 Jagged2 gene, complete cds; and unknown gene	Homo sapiens 14q32 Jagged2 gene, complete cds; and unknown gene	Homo sapiens DKFZP586M0122 protein (DKFZP586M0122), mRNA	Homo sapiens Inner membrane protein, mitochondrial (mitofilin) (IMMT), mRNA	aa86g07.s1 Stratagene fetal retina 937202 Homo saplens cDNA clone IMAGE:838236 3' similar to SW:PRS8_HUMAN P47210 26S PROTEASE REGULATORY SUBUNIT 8;	EST51124 WATM1 Homo sapiens cDNA clone 51i24 similar to DNA-DIRECTED RNA POLYMERASE II (elignment Ser and Pro with BLASTx or p)	EST51124 WATM1 Homo sepiens cDNA clone 51i24 similer to DNA-DIRECTED RNA POLYMERASE II (alignment Ser and Pro with BLASTx or p)	Homo sapiens hypothetical protein FLJ11196 (FLJ11196), mRNA	Homo sapiens heat shock 70kD protein 9B (mortalin-2) (HSPA9B) mRNA	Homo sapiens cadherin 6, K-cadherin (fetal kidney) (CDH6) mRNA	Homo sapiens cadherin 6, K-cadherin (fetal kidney) (CDH8) mRNA	Homo sapiens hypothetical protein FLJ20695 (FLJ20695), mRNA	Homo sapiens hypothetical protein FLJ20695 (FLJ20695), mRNA	Homo sapiens mRNA for alpha-tubulin 8 (TUBA8 gene)	Homo sapiens hypothetical protein FLJ20080 (FLJ20080), mRNA	Homo sapiens alkylation repair; alkB homolog (ABH), mRNA	Homo sapiens Death associated protein 3 (DAP3) mRNA	MRO-BN0115-200300-003-h08 BN0115 Homo sapiens cDNA	Homo sapiens potassium channel, subfamily K, member 9 (KCNK9), mRNA	Homo saplens potassium channel, subtamily K, member 9 (KCNK9), mKNA	Homo sapiens protein kinase, X-linked (PRKX) mRNA	Homo sapiens protein kinase, X-linked (PRKX) mRNA	Homo sapiens ribosomal protein S27a (RPS27A) mRNA	Homo sapiens hypothetical protein FLJ20309 (FLJ20309), mRNA	Homo sapiens DNA for Human P2XM, complete cds	Homo sapiens DNA for Human P2XM, complete cds	Homo sapiens similar to rat integral membrane glycoprotein POM121 (POM121L1), mRNA	Homo sapiens similar to rat integral membrane glycoprotein POM121 (POM121L1), mRNA	Homo sapiens Npw38-binding protein NpwBP (LOC51729), mRNA	H.sapiens ART4 gene
Top Hit	Database Source	TN	LN	LN	TN	NT	EST_HUMAN	EST_HUMAN	EST_HUMAN	Ę	LN LN	IN	NT	NT	NT	NT	NT	NT	NT	EST_HUMAN	NT	LN-	NT	NT	NT	TN	TN	TN	INT	TN.	INT	NT
Top Hit Acession	Ö	IO AF111170.3	0.0E+00 AF111170.3	30 AF111170.3	7661685 NT	5803114 NT	0.0E+00 AA458680.1	V43182.1	N43182.1	8922933 NT	4758569 NT	4826672 NT	4826672 NT	8923624 NT	8923624 NT	0.0E+00 AJ245922.1	8923087 NT		4758117 NT	0.0E+00 BE005208.1		7706134 NT			4506712 NT	8923290 NT	0.0E+00 AB002059.1	0.0E+00 AB002059.1	7857468 NT		7706500 NT	00 X95826.1
Most Similar		0.0E+00/	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.05+00	0.0E+00 N43182.1	0.0E+00 N43182.1	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
Fxpression	Signal	1.83	2.3	3.78	3.08	2.5	1.43	6.1	1.9	3.55	2.49	1.89	1.89	3.63	3.63	119.02	1.19	3.52	2.3	2.2			6.0	6.0	4.27	96'0	23.77	44.3	5.51	5.51	1.1	0.87
ORFSEO		28416						26428			26445					L.		28471		26490		26515		26526								9 26538
Exon	SEQ ID NO:	13755	13755	L	L.,	13763	[Ι.	J .	L	L	L	l	L	_	l	上	L	13818	13832	<u> </u>	13855		13867	L	L.	L		L	1	1	13879
Probe	SEO IO IO IO IO IO	994	986	86	666	1003	1004	1007	1007	1010	1025	1043	1043	1047	1047	1048	1050	1052	1060	1074	1097	1097	1110	1110	=======================================	1113	1118	1118	1119	1119	1122	1123

PCT/US01/00667

PCT/US01/00667

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	Top Hit Descriptor	H.saplens ART4 gene	qb22d10.x1 Soares_pregnant_uterus_NbHPU Homo sapiens cDNA clone IMAGE:1697011 3'	Homo sapiens mRNA for KIAA0903 protein, partial cds	Homo sapiens chondroitin sulfate proteoglycan 2 (versican) (CSPG2) mRNA	Homo sapiens chondroitin sulfate proteoglycan 2 (versican) (CSPG2) mRNA	Homo sapiens chromosome 12 open reading frame 3 (C12ORF3), mRNA	Homo sapiens glutamate decarboxylase 1 (brain, 67kD) (GAD1), transcript variant GAD25, mRNA	Homo sapiens glutamate decarboxylase 1 (brain, 67kD) (GAD1), transcript variant GAD25, mRNA	Homo sapiens mRNA for KIAA1414 protein, partial cds	Homo sapiens keratin 18 (KRT18) mRNA	Homo sapiens amphiphysin I mRNA, atternative splice Isoform, complete cds	Homo sapiens mutt. (E. coli) homolog 3 (MLH3), mRNA	Homo sapiens hypothetical protein FLJ10697 (FLJ10697), mRNA	Homo sapiens ALR-like protein mRNA, partial cds	Homo sapiens ALR-like protein mRNA, partial cds	Homo sapiens ALR-like protein mRNA, partial cds	Homo saplens ALR-like protein mRNA, partial cds	Homo saplens chromosome 3 subtelomeric region	Homo sapiens chondroitin sulfate proteoglycan 4 (melanoma-associated) (CSPG4), mRNA	Homo sapiens NF2 gene	Homo sapiens ribosomal protein S2 (RPS2) mRNA	Homo sapiens Williams-Beuren syndrome deletion transcript 9 (WBSCR9) mRNA, complete cds	Homo sapiens mRNA for KIAA1507 protein, partial cds	Horno sapiens mRNA for KIAA1507 protein, partial cds	Homo sapiens Wolfram syndrome (WFS) mRNA	Homo sapiens Wolfram syndrome (WFS) mRNA	Homo sapiens Wolfram syndrome (WFS) mRNA	Homo sapiens protein phosphatase 2A BR gamma subunit gene, exon 5	Homo saplens rhabdoid tumor deletion region protein 1 (RTDR1), mRNA	Homo sapiens rhabdold tumor deletion region protein 1 (RTDR1), mRNA	Homo sapiens ring finger protein 9 (RNF9), mRNA	Homo saplens zinc finger protein 173 (ZNF173) mRNA	Homo sepiens ring finger protein 9 (RNF9), mRNA	Homo sapiens zinc finger protein 173 (ZNF173) mRNA
	Top Hit Database Source	NT.	EST HUMAN	LN	LN	F	LN	FN	٦N	TN	NT	NT L	۲	LN.	LN	L	NT	NT	NT	LN	IN	IN	LN	LN	LN	LN	LN	INT	IN	TN	LN	TN	LN	LN	L
	Top Hit Acession No.	X95826.1	0.0E+00 AI147650.1	0.0E+00 AB020710.1	4758081 NT	4758081 NT	9966844 NT	7305076 NT	7305076 NT	0.0E+00 AB037835.1	4557887 NT	0.0E+00 AF034996.1	7657338 NT	8922593 NT	0 AF264750.1	AF264750.1	AF264750.1	0.0E+00 AF264750.1	0.0E+00 AF109718.1	4503098 NT	/18000.1	4506718 NT	0 AF084479.1	0.0E+00 AB040940.1	AB040940.1	5174748 NT	5174748 NT	5174748 NT	0.0E+00 AF096156.1	7657529 NT	7657529 NT	5803146 NT	4508004 NT	5803146 NT	4508004 NT
	Most Similar (Top) Hit BLAST E Value	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00/	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00/	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00 Y18000.1	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00/	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
	Expression Signal	0.87	0.92	1.56	0.71	0.71	1.39	6.83	6.83	1.85	0.75	4.54	1.62	1.7	1.53	1.53	1.77	1.53	9.12	1.71	2.33	23.59	3.07	2.07	2.07	2.04	2.04	2.04	3.78	1.63	1.63	2.03	0.89	1.12	0.72
	ORF SEQ ID NO:	26539	26540	26542	26548	26549	26550	26561	26562	26565	26574	26583		26617	26620	26621	26622	26623		26647		26667	26676	26681	26682	26695	26696	26697		26709	26710	26715	26716		26718
	Exon SEQ ID NO:	13879	13880	13882	13889	13889	13890	13900	13900	13903	13910	13921	13939	13953	13956	13956	13957	15562	13974	13975	13992	14000	14007	14014	14014	14027	14027	14027	14028	15564	15564	14042	14043	14045	14046
	Probe SEQ ID NO:	1123	1124	1126	1133	1133	1134	1145	1145	1148	1155	1167	1187	1201	1204	1204	1205	1206	1224	1225	1243	1251	1258	1265	1265	1277	1277	1277	1278	1288	1288	1293	1294	1296	1297

Page 479 of 536 Table 4

W	0 01/57275		Т	┰	7	T	7	_	_	ТТ				_	_	_	_	_	_		*3***	· .		<u> </u>			P	<u>C</u>]	<u> [/[</u>	JSO)1/	<u>'00</u>	<u>667</u>
Single Exon Probes Expressed in Brain	Top Hit Descriptor	Liver and the second se	riorino septens mikiNA for KIAA0577 protein, complete cds	Homo sapiens KIAA0170 gene product (KIAA0170), mRNA	riomo sapiens KIAA0170 gene product (KIAA0170), mRNA	Homo sapiens period (Drosophila) homolog 3 (PER3), mRNA	Homo sapiens period (Drosophila) homolog 3 (PER3), mRNA	Human endogenous retrovirus HERV-K10	Homo capiers mRNA for Familial Cylindromatosis cyld gene	promo seprens partiel 1 IN gene for titin 1938b06.x1 Soeree_testls_NHT Homo sapiens cDNA clone IMAGE:1837427.3' similar to WP:T27A1.5		RAN, member RAS oncogene familyHomo saplens RAN, member RAS opcodene femily. (BAN)	Homo sapiens proprotein convertase subtilisin/kexin type 2 (PCSK2) mRNA	Homo saplens proprotein convertase subtilisin/kexin type 2 (PCSK2) mRNA	Homo saplens KIAA1114 protein (KIAA1114), mRNA	Homo sapiens KIAA1114 protein (KIAA1114), mRNA	Homo sapiens partial AF-4 gene, exons 2 to 7 and Alu repeat elements	Homo saplens alpha1-6fucosyltransferase (alpha1-6FucT) gene, exon 7	roino sapiens titin (TTN) mRNA	Homo sapiens titin (TTN) mRNA	numen neoulin mknA, partial cds	numan nebulin mkna, partial ods Namel himse	Nover Hullian gene on chromosome 20	Novel numan gene mapping to chomosome 1	numan mikina for KIAA0240 gene, partial cds	riomo sapiens calcineurin binding protein 1 (KIAA0330), mRNA	Homo sapiens KIAA0170 gene product (KIAA0170), mRNA	riomo sapiens KIAA0170 gene product (KIAA0170), mRNA	numan von Willebrand factor pseudogene corresponding to exons 23 through 34	numen von Willebrand factor pseudogene corresponding to exons 23 through 34	Trains sapiens NHDC for homolog of Drosophila headcase (LOC51696), mRNA	ES 1371/37 WAGE resequences, MAGF Homo sapiens cDNA	oachadul i Not. Cadr. GCB1 Homo sapiens cDNA clone IMAGE:815116 5' Cercopithecus aethlops cyclophilin A mRNA, complete cds
igle Exon Pro	Top Hit Database Source	H ₂	1	1	E A	- L	2	2 12		EST HUMAN		Į.	Į.	LZ!				2 2	<u> </u>	F	LN	FZ	Į.	Į							T LI IACANI	Т	T
Sin	Top Hit Acession No.	AB011149 1	ZER 108E NIT	7661965 NT	8567207	9567907	100/000	-	277892.1	208756.1	00000	0042206 NT	4505046 N	4505646 NT	1 0000011	738003 1	T	77730	4507720 NIT	27/100			37764.1	077.1	6912457	7681985 NIT	7881085 NIT	929	1929	7706434	959687.1		\prod
	Most Similar (Top) Hit BLAST E Value	0.0E+00 A	0.0F+00	0.0E+00	0.0F+00	0.05+00	0 0F+00 M4 44 22 4	0.0F+00.	0.0E+00 A.	0.0E+00 A	00+100	00-100	001100	0.0F	00110	0.0E+00.A	0.0E+00/AF0382804	0.0E+00	0.0E+00	0.0E+00 U35637 1	0.0E+00 U35637.1	0.0E+00 AL 132999.1	0.0E+00 AI	0.0E+00 D87	0.0E+00	0.0E+00	0.0E+00	0.0E+00 M60	0.0E+00 MS	0.0E+00	0.0E+00 AW	0.0E+00 AA	0.0E+00 AF023860.1
	Expression Signal	4.71	2.04	5.88	3.01	3.01	1.82	1.38	3.39	1.59	13.24	2	160	4.08	4.08	4.59	3.02	6.39	5.39	17.93	17.93	2.59	1.82	1.73	4.53	1.55	1.55	0.97	0.97	1.37	1.21	1.76	49.82
	ORF SEQ ID NO:	Ц	26721	26722	26723	26724	26737	. 26809	26817	26821	26822	26833	26834	26837	26838	26839	26852	26863	26864	26868	26869	26876	26877	26882	26885	26887	26888	26893	26894	26932	26949	26950	26953
	Exon SEQ ID NO:						14062	14134	14140	14143	14144	14153	14153	14155	14155	14157	14168	14178	14178	14183	14183	14193	14194	14198	14201	14203	14203	14207	14207	14246	14263	14264	14269
	Probe SEQ ID NO:	1299	130	1301	1302	1302	1314	1387	1393	1396	1397	1406	1406	1408	1408	1410	1420	1431	1431	1436	1436	1446	1447	1451	1454	1456	1456	1460	1460	1500	1516	1517	1522

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WC	01/57275					ŕ	П	-	Τ	7	7	T	7	7	7	7	7	乛	٦	7	7	Ī	Ť		T	Z T			F	°C	T/I	US	01,	<u>(0</u> 0	66	<u>7</u>
Single Exon Probes Expressed in Brain	Top Hit Descriptor		Cercopithecus aethiops cyclophilin A mRNA, complete cds	EST388206 MAGE resequences, MAGN Homo saniens chiva	EST388206 MAGE resequences, MAGN Homo seniens con A	Bovine mRNA for neurocalcin	Homo sapiens Bruton's tyrosine kinase (BTK), alpha-D-galactosidase A (GLA) 44 Jike shoomed	(L44L) and F1P3 (F1P3) genes, complete cds	Home captens transmembrane glycoprotein (GPNMB) mRNA	nono sapiens transmembrane glycoprotein (GPNMB) mRNA	Homo sapiens KIAA0957 protein (KIAA0957), mRNA	Tronto Saplens I NF-Inducible protein CG12-1 (CG12-1), mRNA	riuman transglutaminase mRNA, complete cds	Homo sapiens titin (TTN) mRNA	Homo sapiens titin (TTN) mRNA	Homo saplens ribosomal protein L5 (RPL5) mRNA	Human laminin receptor (2H5 epitope) mRNA, 5' end	Homo sepiens titin (TTN) mRNA	Homo sapiens titin (TTN) mRNA	Homo sapiens chondroitin sulfate proteoglycan 4 (melanome-associated) (CSBC4)	human c-yes-2 gene	H.sapiens hH2B/e gene	Homo sapiens butyrophilin, subfamily 2, member A1 (BTN2A1), mRNA	Homo sapiens butyrophilin, subfamily 2, member A1 (BTN2A1), mRNA	AV690831 GKC Hamo saplens cDNA clone GKCBOF02 5	Avostast GKC Homo sapiens cDNA clone GKCBOF02 5	Homo saplens mRNA for KIAA1472 protein, partial cds	Homo saplens DNA polymerase zeta catalytic subunit (REV3) mRNA complete ad-	Homo saplens KIAA0569 gene product (KIAA0569), mRNA	Homo sapiens KIAA0569 gene product (KIAA0569) mRNA	Homo sapiens heat shock 70kD protein 10 (HSC71) (HSPA10) mRNA	Homo saplens heat shock 70kD protein 10 (HSC71) (HSPA10) mRNA	Human sodium channel mRNA	yo76c05.s1 Soares adult brain N2b4HB55Y Homo saplens cDNA clone IMAGE 182848 81	Homo sapiens mRNA for KIAA1609 protein, partial cds	Homo sapiens mRNA for KIAA1609 protein, partial cds
gle Exon Pr	Top Hit Database Source			EST HUMAN	EST HUMAN	ĻZ						L L		_	<u> </u>		Z	_	- ,	_				- 11	EST HUMAN	NEWOL								HOMAN		
בוא	Top Hit Acession No.	03860 4	23000.1	1	1			1505404	4505404 NT	768240E NIT	TN 55697		507720	102/1004	450064	4200024	4507700	10277004	4502000 N	+2013098		100.1 E004 460 MT	5024 460 N	3	T	T.	T	7662402	7660400 N	IN 52007	1 298/6 N	0/087/		T	46829 1 NT	
	Most Similar (Top) Hit BLAST E Value	O OF TOO A EO	V COT-EO O	200	00-100	0.0E+00 D10884.1	0.0E+00 U78027_1	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00 M98478 1	0.0E+00	005+00	001100	0 OF 100 M4444	001100	0.05+00	0 0F+00	0 0F+00100333 4	0 0F±00 7837	0 0F+00	0.0E+00	0.0E+00 AVR00834 4	0.0E+00/AV690831 1	0.0E+00 AR040905 1	0.0E+00 AF15	0.0E+00	0.05+00	0 0E±00	0 0F+00	0.0E+00 Mo1803 4	0.0F+00 H2697	0.0E+00 AR046820 4	0.0E+00 AB046829 1	
	Expression Signal	49.82	1 24	124	2 40	e de la companya de l	2.07	2.1	2.1	3.3	7.29	1 8.1	3.72	3.72	11.72	11.72	2.86	2.86	11.7	121	1.65	1.59	1.59	11.18	11.18	9.85	1.83	9.78	9.78	42.75	42.75	7.94	5.85	2	2	
	ORF SEQ ID NO:	26954	26957	26958	26959			26962	26963	26965		26971	26973	26974		26975	26988	26989	26990		27007	27008	27009	27010	27011	27014	27015	27018	27019	27020	27021	27023	27039	27051	27052	
	Exan SEQ ID NO:		14271	14271	14272		14274	14275	14275	14277	14278	14284	14287	14287	15572	14288	14300	14300	14302	14310	14321	14322	14322	14323	14323	15573	14329	14331	14331	14333	14333	14335	14350	14361	14361	
	Probe SEQ ID NO:	1522	1524	1524	1525		1527	1528	270	230	1531	2	8	1540	1541	1542	1553	1553	1555	1563	1574	1575	_		l	[$_{\perp}$	_ [1614 1	

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	Top Hit Descriptor	The state of the s	MRO-HT0166-191199-004-b11 HT0166 Homo sapiens cDNA	WiRd-H0166-191199-004-b11 HT0166 Homo sapiens cDNA Wg81b07x1 Soares NSF FR oW OT DA D STILL	TR:Q62788 Q62788 CYSZHIS2 ZINC FINGER PROTEIN	Homo saplens hematopoletic derived zinc flores madels (1815)	Homo saplens T-cell receptor gamma V1 generation	Human zinc-finger profeln 7 (7EB2) mBNA	Human zinc-finger protein 7 (ZFP7) mRNA, complete cds	Homo saplens keratin 18 (KRT18) mRNA	Homo saplens v-ets avian erythroblastosis virus E26 oncogene related (ERG), mRNA	MKP-1 LIKE PROTEIN TYPOGINE BLOCK IN TABLE 198147 095147	hu11d05.x1 NCI_CGAP_Lu24 Homo saplens cDNA clone IMAGE:3166281 3' similar to TR:095147 Op5147	MKP-1 LIKE PROTEIN TYROSINE PHOSPHATASE;	riomo sapiens gamma-aminobutyric acid (GABA) A receptor, gamma 2 (GABRG2) mRNA	Nosewo. I Soares breast 3NbHBst Homo sapiens cDNA clone IMAGE:182246 6' similar to gb:M64099 GAMMA-GLUTAMYLTRANSPEPTIDASE & BREICH DAGE (ALIMANA)	yo59e08.r1 Soares breast 3NbHBst Homo saplens cDNA clone IMAGE:182246 5' similar to ch-Madoo	GAIMMA-GLU I AMYL TRANSPEPTIDASE 5 PRECURSOR (HUMAN);	n.sapkens Hzb/n gene	n sapiens HZB/n gene	Hours sapiens high-mobility group (nonhistone chromosomal) protein 17 (HMG17), mRNA	Homo eaplens POV to 2-1.	Homo sapiens POAJZ fortinead factor (LOC55810), mRNA	Homo sapiens WAVE2 mRNA 62 W ASE 6	TCR zeta Ihuman Genomic/mBNA ass 1	Homo saplens NOD2 protein (NOD2) Bayment 1 of 8]	Homo saplens SMCY (SMCY) dene, complete cde	Homo saplens ribosomal protein S2 (RPS2) mena	Homo sapiens E1A binding protein p300 (FP2nn) mRNA	Homo sapiens E1A binding protein p300 (FP30n) mPNA	Human CSF-1 receptor (FMS) gene, complete cds, and (SMF) gene, partial cds	2d66g09.r1 Soares fetal heart NDHH19W Homo saniens CDNA clara 1446 Course
	Top Hit Database Source	100	EST HUMAN	NAMOU SI	EST_HUMAN	둗	ŢN	ĮN.	LN LN	Ę	Ę	EST HUMAN	I^{-}	HOMAN		EST_HUMAN		NAMON TO PIN		1				F	Z							EST HUMAN Z
	Top Hit Acession No.	BE144364 4	0.0E+00 BF144364 1		76810	4758513 NT	0.0E+00 AF057177.1			4557887 NT	7657065 NT	0.0E+00 BE222374.1	0.0E+00(BF222474.1	27640				1	Ī	503174B	39963.1	8923841	4826973	26542.1	100.1	11545911 NT	73841.1	4506718 NT	4557556 NT	4557556		
Most Similar	(Top) Hit BLAST E Value	0.05+00	0.0F+00		0.0E+00 AI	0.0E+00	0.0E+00	0.0E+00 M29580.1	0.0E+00 M29580.1	0.05+00	0.0E+00	0.0E+00	0.05+00	0.0E+00		0.0E+00 H30132.1	0.0F+00.0	0.0F+00 Z80780 4	0.0E+00 Z80780 1	0.0E+00	0.0E+00 A	0.0E+00	0.0E+00	0.0E+00 AB0	0.0E+00 S94	0.0E+00	0.0E+00 AF2	0.0E+00	0.0E+00	0.0E+00	0.0E+00 U63963.1	0.05+00 0.0
	Expression Signal	1.25	1.25		1.68	7	2.61	1.76	1.76	2	0.	1.12	1.12	3.24		3.18	3.18	1.32	1.32	13.71	1.11	3.53	1.11	4.08	2.19	1.16	1.93	9.80	3.37	3.37	1.42	4:
	ORF SEQ ID NO:	27095			27404	101/2	2/102	2/ 100	27107	27440	2	27113	27114	27116		27119	27120	27122	27123		27133	27136	27145	27152		2/16/	181/2	00000	27,778	27772	707/7	
T S	U)	14405	14405	14400	\perp	1	14411		14416	14417		14420	14420	14421		14424	14424	14426	14426	14429	14437	14438	14445	14451	2443	//66	15570	2 2	14523	14808	14528	
Probe	SEQ ID NO:	1659	1659	1863	1884	1685	8 8	1880	1671	1672		1675	1675	1677		8	1680	1682	1682	1685	1693	1695	1702	80/1	17.00	1200	1778	4782	1782	1	Ι,	1

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Single Exon Probes Expressed in Brain	Top Hit Descriptor	Homo sapiens nuclear autoantigenIc sperm protein (histone-bInding) (NASP) mRNA	Human ribosomal protein L21 mRNA, complete cds	Human mRNA for KIAA0333 gene, partial cds	Homo sapiens activating transcription factor 4 (tax-responsive enhancer element B67) (ATF4) mRNA	Homo sapiens activating transcription factor 4 (tax-responsive enhancer element B67) (ATF4) mRNA	Homo saplens activating transcription factor 4 (tax-responsive enhancer element B67) (ATF4) mRNA	Homo sapiens protein tyrosine phosphatase, receptor-type, zeta polypeptide 1 (PTPRZ1) mRNA	Homo sapiens Retina-derived POU-domain factor-1 (RPF-1), mRNA	Homo sapiens Retina-derived POU-domain factor-1 (RPF-1), mRNA	Homo sapiens mRNA for KIAA1152 protein, partial cds	Homo sapiens mRNA for KIAA1152 protein, partial cds	Homo sepiens potassium voltage-gated channel, Shab-related subfamily, member 1 (KCNB1) mRNA	Homo sapiens potassium voltage-gated channel, Shab-related subfamily, member 1 (KCNB1) mRNA	Human retinal degeneration slow (RDS) gene, exon 1	Human retinal degeneration slow (RDS) gene, exon 1	UI-H-BI1-afn-f-07-0-UI,s1 NCI_CGAP_Sub3 Homo sapiens cDNA clone IMAGE:2722333 3'	Ui-H-BI1-afn-f-07-0-Ui.s1 NCI_CGAP_Sub3 Homo sapiens cDNA clone IMAGE:2722333 3'	601179164F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3547239 5	601179164F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3547239 5	RC2-BN0128-200300-012-b04 BN0126 Homo sapiens cDNA	Homo sapiens RAD1 (S. pombe) homolog (RAD1) mRNA, and translated products	Homo sapiens RAD1 (S. pombe) homolog (RAD1) mRNA, and translated products	Homo sapiens DNA polymerase zeta catalytic subunit (REV3) mRNA, complete cds	Human transglutaminase mRNA, complete cds	Human transglutaminase mRNA, complete cds	Homo sapiens transforming growth factor, beta 3 (TGFB3), mRNA	Homo saplens transforming growth factor, beta 3 (TGFB3), mRNA	Homo saplens death receptor 6 (DR6), mRNA
le Exon Prot	Top Hit Database Source	FZ	L	LZ	N	N	TN	NT	NT	TN	LN	LN	NT	ΤN	TN	NT	EST HUMAN	EST HUMAN	EST_HUMAN		EST HUMAN	LN	LN	NT	L	N	LN.	L	N.
Sing	Top Hit Acession No.	450532 NT	114967.1	0.0E+00 AB002331.1	4502264 NT	4502264 NT	4502264 NT	4506328 NT	6005855 NT	6005855 NT	0.0E+00 AB032978.1	\B032978.1	4826783 NT	4826783 NT	J07147.1	J07147.1	0.0E+00 AW207280.1	4W 207280.1	0.0E+00 BE277465.1	3E277465.1	3E006292.1	4506384 NT	0.0E+00 4506384 NT	0.0E+00 AF157476.1	M98478.1	M98478.1	4507464 NT		7657038 NT
	Most Similar (Top) Hit BLAST E	0.0E+00	0.0E+00 U14967.1	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00 U07147.1	0.0E+00 U07147.1	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00 M98478.1	0.0E+00 M98478.1	0.0E+00	0.0E+00	0.0E+00
	Expression Signal	2.74	5.68	2.79	4.07	4.07	4.07	1.63	5.82	5.82	1.12	1.12	4.35	4.35	5.47	5.47	1.46	1.46	3.49	3.49	0.93	2.16	2.16	1.22	1.19	1.19	1.53	1.53	1.42
	ORF SEQ ID NO:	27236	27251	27254	27255	27256	27257	27266	27276	27277	27287	27288	27290	27291		27293	27290	27297	27316	27317		L.	27363		27372	27373	27380		27383
	Exon SEQ ID NO:	15579	14540	14542	14543	14543	14543	14552	14565	14565	14575	14575	14578	14578	14579	14579	14582	14582	14606	14606	14624	<u> </u>	14653	14661	15582	15582	14666	H	14668
	Probe SEQ ID NO:	1788	1800	1802	1803	1803	1803	1812	1826	1826	1836	1836	1840	1840	1841	1841	1844	1844	1868	1868	1887	1916	1916	1924	1925	1925	1930	1930	1933

Page 483 of 536 Table 4 Single Exon Probes Expressed in Brain

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Top Hit Descriptor	Homo sapiens glutathlone S-transferase theta 2 (GSTT2) and glutathlone S-transferase theta 1 (GSTT1) genes, complete cds	Human topoisomerase I pseudogene 1	Homo sapiens histidine ammonia-lyase (HAL) mRNA	Homo sapiens histidine ammonla-lyase (HAL) mRNA	Homo sapiens chromosome 21 segment HS21C052	Homo sapiens nebulin (NEB), mRNA	Homo sapiens nebulin (NEB), mRNA	Homo sapiens actinin, alpha 4 (ACTN4) mRNA	Homo sapiens actinin, alpha 4 (ACTN4) mRNA	Homo sapiens mRNA for KIAA0790 protein, partial cds	Homo sapiens mRNA for KIAA0790 protein, partial cds	Human TFEB protein mRNA, partial cds	Human TFEB protein mRNA, partial cds	x69b01.x1 NCI_CGAP_Pan1 Homo saplens cDNA clone IMAGE:26799133'	xl69b01.x1 NCI_CGAP_Pan1 Homo saplens cDNA clone IMAGE:2679913 3'	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA	Homo saplens calcineurin binding protein 1 (KIAA0330), mRNA	Homo saplens KIAA0408 gene product (KIAA0408), mRNA	Homo sapiens mRNA for KIAA0577 protein, complete cds	H.sapiens genes for semenogelin and semenogelin	H.sepiens genes for semenogelin I and semenogelin II	Homo sapiens mRNA for KIAA1513 protein, partial cds	Homo sapiens SMCY (SMCY) gene, camplete cds	Homo sapiens SMCY (SMCY) gene, complete cds	Homo sapiens TP53TG3a (TP53TG3a), mRNA	AU140831 PLACE4 Homo saplens cDNA clone PLACE4000321 5'	Homo sapiens KIAA1114 protein (KIAA1114), mRNA	Homo saplens KIAA1114 protein (KIAA1114), mRNA	7B22E10 Chromosome 7 Fetal Brain cDNA Library Homo sapiens cDNA clone 7B22E10	7B22E10 Chromosome 7 Fetal Brain cDNA Library Homo sapiens cDNA clone 7B22E10	Homo saplens similar to rat Integral membrane glycoprotein POM121 (POM121L1), mRNA	Homo saplens phosphodiesterase 6A, cGMP-specific, rod, alpha (PDE6A), mRNA	HSC0IC021 normalized infant brain cDNA Homo sapiens cDNA clone c-0ic02
Top Hit Database Source	TN	LΝ			LN TA					L/N	IN		LN	EST_HUMAN	EST_HUMAN					NT	LN	LN	LN	NT		EST_HUMAN			EST_HUMAN				EST_HUMAN
Top Hit Acession No.	AF240786.1	M55632.1	4809282 NT	4809282 NT	AL163252.2	8400716 NT	8400716/NT	4826638 NT	4826638 NT	AB018333.1	AB018333.1	M33782.1	M33782.1	AW193024.1	AW 193024.1	6912457 NT	6912457 NT	7662095 NT	AB011149.1	247556.1	Z47556.1	AB040946.1	AF273841.1	AF273841.1	7706742 NT	AU140831.1	7705565 NT	7705565 NT	AA077589.1	AA077589.1	7657468 NT	4585863 NT	242399.1
Most Similar (Top) Hit BLAST E Value		0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00			0.0E+00	0.0E+00		0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
Expression Signal	4.27	1.35	1.94	1.94	1.15	1.09	1.09	2.49	2.49	1.36	1.36	1.69	1.69	1.57	1.57	5.96	5.96	2	1.19	1.58	1.58	3.75	1.02	1.02	1.64	4.13	1.55	1.55	2.04	2.04	2.41	1.91	0.97
ORF SEQ ID NO:			27396	27397		27410	27411	27412	27413	27427	27428	27432	27433	27434	27435	27436	27437	27439	27440	14412	27442	27451	27476	27477	27507	27511	26837	26838	27513	27514			27517
SEQ ID NO:	14670	14675	14684	14684	14695	14697	14697	14698	14698	14709	14709	14715	14715	14717	14717	14718	14718	14720	14721	14722	14722	14729	14749		14779	14785	14155	14155	14787	14787	14789	14791	14792
Probe SEQ ID NO:	1935	1940	1949	1949	1959	1961	1961	1962	1962	1973	1973	1979	1979	1981	1981	1982	1982	1984	1985	1986	1986	1993	2014	2014	2046	2052	2053	2053	2055	2025	2057	2029	2060

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Single Exon. Probes Expressed in Brain	Top Hit Descriptor	qv90f08.x1 NCI_CGAP_U2 Homo septems cDNA come IMACE: domoza at 1	element; similar to contains Alu repetitive	601485146F1 NIH_MGC_69 Homo sapiens cDNA clone IMAGE:3887747 F	601902604F1 NIH_MGC_19 Hamo sapiens cDNA clone IMAGE 4432325 F1	601902604F1 NIH_MGC_19 Hamo saplens cDNA clime (MACE:4135222 5)	RC3-CT0413-270700-022-d10 CT0413 Homo sapiens cDNA	RC3-CT0413-270700-022-d10 CT0413 Homo sepiens cDNA	Human plasma membrane calcium ATPase Isoform 2 (APT2B2) mRNA	Human plasma membrane calcium ATPase Isoform 2 (APT2B2) mRNA, comieta cds	Homo sapiens GTP binding protein 1 (GTPBP1) mRNA	QV1-GN0055-140800-318-c10 GN0065 Homo sapiens cDNA	Fromo Sapiens X-linked juvenile retinoschists protein (XLRS1) gene, exon 6 and complete cde	OUTD/2068F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3954785 5'	France 1 0547-210300-004-F04 BT0547 Homo sapiens cDNA Homo sapiens glutathione S-transferase there 2 (CSTT2) and cliniating and	genes, complete cds	it3-C10219-271099-022-G10 CT0219 Homo saplens cDNA	Homo saplens metabotropic glutamate receptor 1 alpha (mGluR1alpha) mRNA complete ad-	UV-B1065-020399-092 B1065 Homo sapiens cDNA	WY-B 1 005-020389-092 BT065 Homo saplens cDNA Homo saplens podasslum larra condintence and the	(KCNMB3L), mRNA	Human DNA-binding protein mRNA, 3'end	601122338F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3346688 F'	AV738288 CB Homo saplens cDNA clone CBNBDE08 5	AV738288 CB Homo sapiens cDNA clone CBNBDE08 5'		34 5.	GE:3839012.3'			bB84e02.yf NIH_MGC_19 Home sapiens cDNA clone IMAGE:3128622 5' TRANSCRIPTION FACTOR S.II.REI ATED PROTEIN:
gle Exon.Pro	Top Hit Datebase Source		EST HUMAN	EST_HUMAN	EST HUMAN	EST_HUMAN	EST_HUMAN	EST HUMAN	LN L	Z	10000	ESI HOMAN	1 11 11 11 11	Т	NUMBER	7	HOMAN		EST HUMAN	Nemoti		П	7	HOMAN	Т	Т	Т	Т	IOMAN	EST HIMAN E	
in in	Top Hit Acession No.		A1244247.1		DF313323.1	DE607405.1	DE09/125.1		00620.1	4759490	F767064 1	E018963 1	T			0.0E+00 AF 240/86.1	T	T			7657252		T	T		T	T	T	T	T	
	Most Similar (Top) Hit BLAST E Value	001200	0.05+00	00+100	000	005100	001100	00-100	0.0	0.0E+00	0.0E+00 B	0.0E+00	0.0E+00	0.0E+00	00.100	0.0E+00.4	0 0E+00 78837 4	00F+00	0.0E+00 A1904640.1		0.00+00	0.0E+00.EE-274606.4	0 0F+00 AV738288 4	0.0F+00 AV/38289.1	0.0E+00 AA034604 4	0.0E+00 BE344434 4	0.0F+00 BF748800 1	0.0F+00 BE377897 4	0 OF+00 P	0.0E+00 BF313617 1	0.0E+00 BE018750.1
	Expression Signal	1 78	3.46	148	148	307	307	371	3.71	1.36	2.06	1.59	3.76	1.03	100	13	1.47	6.39	6:39	,	120	105	7.59	7.59	1.4	5.68	12.14	3.55	3.55	2.04	1.93
	ORF SEQ ID NO:		27526	27528	27529	27532	27533	27544	27545	27549			27572	27573	27574	27576	27577	27579	27580		+	27644	27647	27648	27650	27654	27655	27659	27660	27665	27668
	SEQ ID NO:	14794	14799	14801	14801	14804	14804	14812	14812	14817	14838	14839	14841	14842	14844	14847	14848	14850	14850	14883	14908	14912	14914	14914	14916	14920	14921	14925	14925	15588	14931
	Probe SEQ ID NO:	2062	2067	2069	2069	2072	2072	2080	2080	2085	2107	2108	2110	2111	2113	2116	2117	2119	2119	2153	2179	2183	2185	2185	2187	2191	2192	2196	2186	2200	2203

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Top Hit Descriptor	2633c07.s1 Soares_pregnant_uterus_NbHPU Homo sapiens cDNA clone IMAGE:486540 3' similar to gb:X65857_cds1 OLFACTORY RECEPTOR-LIKE PROTEIN HGMP07E (HUMAN):	ঠরেও/7.s1 Soares_pregnant_uterus_NbHPU Homo sapiens cDNA clone IMAGE:486540 3' similar to gb:X65857 cds1 OLFACTORY RECEPTOR-LIKE PROTEIN HGMP07F (HIMAN)	Homo sapiens chromosome 21 segment HS21C004	Homo saplens chromosome 21 segment HS21C004	Homo sapiens KIAA0952 protein (KIAA0952), mRNA	Homo sapiens KIAA0952 protein (KIAA0952), mRNA	Human beta-prime-adaptin (BAM22) dene. exon 16	Homo saplens E1A binding protein p300 (EP300) mRNA	Homo sapiens KIAA0952 protein (KIAA0952), mRNA	601433525F1 NIH_MGC_72 Homo saplens cDNA clone IMAGE:3918607 5'	601495208F1 NIH MGC 70 Homo saplens cDNA clone IMAGE:3897457 5	601495208F1 NIH_MGC_70 Homo saplens cDNA clone IMAGE:3897457 5	Homo saplens mRNA for KIAA1363 protein, partial cds	Homo sapiens differentially expressed in FDCP (mouse homolog) 6 (DEF6), mRNA	Homo saplens differentially expressed in FDCP (mouse homolog) 6 (DEF6), mRNA	0209c07.x1 Soares_fetal_liver_spleen_1NFLS_S1 Homo saplens cDNA clone IMAGE:1674828 3'	zv78a11.r1 Soares_total_fetus_Nb2HF8_9w Homo sapiens cDNA clone IMAGE:759740 5	zv78a11.r1 Soares_total_fetus_Nb2HF8_9w Homo sapiens cDNA clone IMAGE:759740 5	602021846F1 NCI_CGAP_Brn67 Homo saplens cDNA clone IMAGE:4157339 5'	Homo sapiens potassium channel Kv2.1 mRNA, complete cds	Homo saplens mRNA for KIAA0910 protein, partial cds	Homo sapiens mRNA for KIAA0910 protein, partial cds	Homo sapiens flavin containing monooxygenase 3 (FMO3), mRNA	7/22e02.x1 NCI_CGAP_CLL1 Homo sepiens cDNA clone IMAGE:3295370 3' similar to TR:094939 094939	KIAA0857 PROTEIN;	Homo sapiens phosphorylase kinase alpha subunit (PHKA2) gene, exon 32	ty67c08.x1 NCI_CGAP_Ut2 Homo sapiens cDNA clone IMAGE:2283182 3'	Homo sapiens KIAA0952 protein (KIAA0952), mRNA	Homo sapiens KIAA0952 protein (KIAA0952), mRNA	Homo saplens sperm specific antigen 2 (SSFA2), mRNA	Homo saplens sperm specific antigen 2 (SSFA2), mRNA	Homo sapiens KIAA0218 gene product (KIAA0218), mRNA
Top Hit Database Source	EST_HUMAN	EST HUMAN	Г	¥	Z	N	LN LN			EST_HUMAN	EST_HUMAN	HUMAN	닐				EST_HUMAN	EST_HUMAN	EST_HUMAN	LN T	NT	NT			T_HUMAN		EST_HUMAN					
Top Hit Acession No.	AA042813.1	AA042813.1	AL163204.2	AL163204.2	7662401 NT	7662401 NT	U36264.1	4557556 NT	7652401 NT	BE895281.1	BE905563.1	BE905563.1	AB037784.1	11545748 NT	11545748 NT	A1076404.1	AA429001.1	AA429001.1	BF347039.1			AB020717.1	6325486 NT			AF044571.1	AI625542.1	7662401 NT	7662401 NT	5803178 NT	5803178 NT	7662007 NT
Most Similar (Top) Hit BLAST E Value	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00		0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00		0.0E+00	0.0E+00		0.0E+00		0.0E+00			0.0E+00	0.0E+00			0.0E+00/		0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
Expression Signal	1.55	1.55	3.37	3.37	2.3	2.3	1.37	5.71	2.03	1.71	1.27	1.27	2.35	4.02	4.02	1.87	2.33	2.33	1.75	1.52	1.61	1.61	1.39	ļ	1.17	4.73	1.9	1.88	1.88	1.95	1.95	1.24
ORF SEQ ID NO:	27689	27670	27678	27679	27680	27681		27704	27709	27717	27720	27721	27723	27759	27760	27761	27763	27764	27766	27772	27773	27774	27775		27780	27782	27783	27785	27786	27789	27790	27793
Exon SEQ ID NO:	14932	14932	14940	14940	14941	14941	14946	14964	14971		l		14983	15024	15024	li	1				15035	15035	15036	0,0	15042	15045	15048	15050	15050	15053	15053	15058
Probe SEQ ID NO:	2204	2204	2212	2212	2213	2213	2218	2238	2243	2250	2253	2253	2256	2299	2299	2300	2302	2302	2304	2309	2310	2310	2311	- 1		2320	2321	2325	2325	2328	2328	2334
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Top Hit Descriptor		Homo sapiens KIAA0218 gene product (KIAA0218). mRNA	Homo sapiens signal regulatory protein, beta, 1 (SIRP-BETA-1) mRNA	AU131142 NT2RP3 Homo sapiens cDNA clone NT2RP3002n64 F	601598843F1 NIH_MGC_7 Homo saplens cDNA clone IMAGE:30410n3 E	WR1-SN0033-120400-002-a04 SN0033 Homo sapiens cDNA	Homo sapiens KIAA0244 protein (KIAA0244), mRNA	Homo sapiens hexose-6-phosphate dehydrogenase (glucose 1-dehydrogenses) (HRDD)	Homo sepiens hexose-6-phosphate dehydrogenase (glucose 1-dehydrogenase) (H6PD), mRNA	4 (CYP3A4) and cytochrome P450 polypeptide 43 (CYP3A43) gene, partial cds; cytochrome P450 polypeptide	polypeptide 5 (CYP3A5) gene, partial cds	AU118082 HEMBA1 Homo sapiens cDNA clone HEMBA1002839 5'	AU118082 HEMBA1 Homo sapiens cDNA clone HEMBA1002839 5'	AU118082 HEMBA1 Homo sapiens cDNA clone HEMBA1002839 5	₹	MRV-BN0070-090600-029-d12 BN0070 Homo sapiens cDNA	ανο περικέ HEMBA1 Homo saplens cDNA clone HEMBA1008155 5' αν60b02.x1 Soares NhHMPu S1 Homo saplens cDNA close (MAOC 1000000000000000000000000000000000000	008662 230KDA PHOSPHATIDYLINOSITOL 4-KINASE	Homo saplens hypothetical protein FLJ20693 (FLJ20693), mRNA	601432608F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3918168 5	MK1-1N0021-280800-001-h06 TN0021 Home sapiens cDNA	Ab005622 HeLa cDNA (T.Noma) Homo sapiens cDNA similar to adenyate kinase isozyme 2	nomo sapiens glutamate receptor, ionotropic, N-methyl D-aspartate 2A (GRIN2A) mRNA	Turno saptens gene for cholecystokinin type-A receptor, complete cds	normo sapiens gene for cholecystokinin type-A receptor, complete cds	Tromo sapiens immunoglobulin-like transcript 1c variant 4 (ILT1c) gene, exon 6	002018058F1 NCI_CGAP_Brn67 Homo sapiens cDNA clone IMAGE:4153670 5	Homo sapiens collagen, type XII, alpha 1 (COL12A1), mRNA	Curve in 1033-150600-428-h11 MT0033 Homo sepiens cDNA	CMV-MT0033-150600-428-h11 MT0033 Homo sapiens cDNA	numan G protein-coupled receptor (GPR1) gene, complete cds	Fruman & protein-coupled receptor (GPR1) gene, complete cds	00218430811 NIH MGC 42 Homo sapieris cDNA clone IMAGE:4300383 31
Top Hit Database Source	H		2	EST HUMAN	EST_HUMAN	EST_HUMAN	Į.	Į.		ļ		ES HOMAN	EST HUMAN	CO DOMAIN	N COT CLINES	Т	Т	T HUMAN		HOMAN	Т	- HOMAN				1 11 18 18 18 18	UDIMAN	10000	7	NAMO		HIMANI	7
Top Hit Acession No.	TACOCCART	1002001	श	T	0.05+00 BE/94026.1		7562017 NT	17 198997 X	47.58497 INT		118082 1	118082.1	118082 1	8022000	8	T			88	T	T	Sons	5606 1 NT		06275.1	T	2777		T	T	T		1
Most Similar (Top) Hit BLAST E Value	0.0F+00	004	20.0	0.05+00	0.05+00	00-30-0	00+100	0 0F±00	00-100	001900	0.0E+00 AI	0 0F+00 AL	0.0E+00 AU	0.0E+00	0.0E+00 B	0.0E+00 A(1110582 4	100	0.0E+00 AI042035.1	O OF +OO BEODEADE	0.0E+00 BE0378304	0.0E+00 AR0058224	0.0E+00	0.0E+00 D85606 1	0.0E+00 D85606 1	0.0E+00 AF1	0.0E+00 BF345274 1	0.0E+00	0.0E+00/BE834003 4	0.0E+00 BER34003 4	0.0E+00 U13888 1	0.0E+00 U136661	0.0E+00 BF569144.1	
Expression Signal	1.24	32	230	434	1.51	2 89	203	2.03		20.25	7.98	7.98	7.98	0.98	0.91	1.06	2.27	800	44	-	0.98	4.5	2.09	2.09	1.91	1.22	4.45	1.24	1.24	0.93	0.93	2.98	
ORF SEQ ID NO:	27794	27807	27811		27812	27813	27814	27815			27817	27818	27819	27820		27872		27873		27878		27892	27896	27897	27906	27911	27919	27922	27923	27927	27928	27929	!
S		15071	15074	15075	15078	15077	15078	15078		15079	15081	15081	15081	15082	15099	15136	15137	15138	15141	15145	15154	15157	15160	15160	15168	15172	15179	15183	15183	15188	15188	15189	
Probe SEQ ID NO:	2334	2348	2352	2353	2354	2355	2356	2356		2357	2359	2359	2359	2360	2377	2415	2416	2417	2420	2424	2433	2437	2441	2441	2449	2454	_ [- 1		_1	2471	

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Top Hit Descriptor	ha04h04.x1 NCI_CGAP_Kid12 Homo sapiens cDNA clone IMAGE:2872759 3'	UI-HF-BP0p-ais-c-07-0-UI-1 NIH MIGC 51 Homo sapiens conveniente involutions	Homo sapiens protein kinase, AMF-activated, alpha z catalytic subunit (Trxxxxxz) IIII vx	Homo sapiens protein kinase, AMP-activated, alpha z catalytic subunit (Trivoriz) in the	RC3-ST0197-300300-016-c04-S1019/ Homo sapiens culvA	601592530F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3946016 3	Homo saplens death receptor 6 (DK6), mKNA	UI-H-BI4-aoz-b-08-d-UI.ST NCI_CGAP_Subb Training sapients CONA containing Constant	Homo sapiens mKNA for membrane transport protein (An gene)	Homo sapiens platelet-derived growth factor receptor-like (FDGFRL) mixing	1601503356F1 NIH MGC_70 Home sapiens cultiva dene image 33503149 3	Homo sapiens similar to rat integral membrane grycoprotein F OW 12 (F OW 12 12 1), minor	Homo sapiens hypothetical protein FLJZ0366 (FLJZ0369), mining	Human Sec62 (Sec62) mKNA, complete cds	601508211F1 NIH_MGC_71 Homo sapiens cUNA cione lima GE. 3503503 3	601489241F1 NIH MGC 69 Homo sapiens cunna cione inna ce 308137 I 3	601489241F1 NIF MGC 69 Fomo saplens cultar cione introc. 303 137 1 3	Homo sablers adired mixty, complete cus	601064738F1 NIH MGC TO Home sapiens collections with the same same in the same same same same same same same sam	AU1432// YEAAN TOTIO Septem CLIA CIONE TO AN TOTIO CO	AU1432// Y/9AA1 Homo sapiens culvA cigle 1/9AA10010/3/3	TOUTIONS IZET INIT MICE TO THORIS SAPIRED FOR A SIZE INVAILED FOR STATES AND THE MICE TO THE TOUTION OF THE MICE TO THE TOUTION OF THE TOUTIO	601103512F1 NINT WISC. 10 Hollio Sapielis CONTA Guille INACE. 30 chaille in TB-000248 O00248	7427112.X NCI_CGAP_GC6 Homo septens curva clone invace: 3 similar to 17.00223 Coops of 17.00711EIN (2.17.00223 oops of 17.00711EIN (2.17.0023 Coops of 1	Homo sapiens adlican mRNA, complete cds	601173631F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3529159 5	Homo saptens mRNA for KIAA1415 protein, partial cds	Homo sapiens mRNA for KIAA1415 protein, partial cds	UI-H-BW1-amp-f-12-0-UI.s1 NCI_CGAP_Sub7 Homo sepiens cDNA clone IMAGE:3070631 3	602152653F1 NIH MGC 81 Homo sapiens cDNA clone IMAGE: 4283512 5	601869073F1 NIH MGC_17 Homo septens cuina cione IMAGE:4111411 3	do topsological minima de la como
Top Hit Database Source	П	T HUMAN	NT	LN	EST_HUMAN	EST_HUMAN	. 1	EST HUMAN	Z	Ę	EST HUMAN	Ę	₽N	Z	EST_HUMAN		EST HOMAN	L	EST HUMAN	EST_HUMAN	EST HUMAN	EST HUMAN	EST HUMAN	EST_HUMAN	NT	EST HUMAN	NT	NT	EST HUMAN	EST HUMAN	EST HUMAN	EST_HUMAN
Top Hit Acession	0.0E+00 AW 466922.1	0.0E+00 AW501010.1	5453965 NT	5453965 NT	0.0E+00 AW813853.1	0.0E+00 BE795542.1	7657038 NT	0.0E+00 BF509482.1	232684.2	5453871 NT	3E910378.1	7657468 NT	8923340 NT	J93239.1	0.0E+00 BE886490.1	0.0E+00 BE875511.1	0 BE875511.1	0.0E+00 AF245505.1	10 BE536921.1	00 AU143277.1	00 AU143277.1	0.0E+00 BE292896.1	0.0E+00 BE292898.1	0.0E+00 BF223041.1	0.0E+00 AF245505.1	0.0E+00 BE296613.1	00 AB037836.1	00 AB037836.1	00 BF513835.1	0.0E+00 BF672818.1	0.0E+00 BF204131.1	00 BF204131.1
Most Similar (Top) Hit BLAST E Value	0.0E+00/	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00 U93239.1		0.0E+0	0.0尺十0	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
Expression Signal	3.34	2.99	0.91	0.91	1.66	5.22	1.4	1.48	1.83	3.28	1.3	1.96	2.01	2.21	1.44	5.16	. 5.16	1.19	1.2	2.97	2.97	1.8	1.8	1.07	7.94	2.22	2.13	2.13	2.47		1.83	
ORF SEQ ID NO:	27940	27941				27971		27972					27979		27984			27893		28012	28013		28015	28016		L	L				28069	
Exon SEQ ID NO:	15200	L		l	١	1		1	1	1	15238	1	!	15241	1	1	15249	ı	1	Ŀ			L	15277	1_	L	1	1	1		1 1	15326
Probe SEQ ID NO:	2482	2484	2498	2498	2509	2514	2515	2516	2518	2520	2522	2523	2524	2525	2530	2534	2534	2536	2554	2561	2561	2562	2562	2563	2566	2589	2606		2607	2611	2615	2615

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Table 4
Single Exon Probes Expressed in Brain

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	Top Hit Descriptor	th19508.x1 NCI_CGAP_Brn25 Homo sapiens cDNA clone IMAGE:2168055 3' sImilar to gb:L20977 CALCIUM-TRANSPORTING ATPASE PLASMA MEMBRANE, BRAIN ISOFORM 2 (HUMAN);	Homo saplens TATA box binding protein (TBP)-associated factor, RNA polymerase II, I, 28kD (TAF2I) mRNA	Homo sapiens mRNA for KIAA1438 protein, partial cds	601590108F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3944304 6'	601590108F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3944304 5'	601143722F1 NIH_MGC_15 Homo sapiens cDNA clone IMAGE:3051389 5	601584930F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3939222 5	Homo sapiens IMP (Inosine monophosphate) dehydrogenase 1 (IMPDH1) mRNA	Homo sapiens Brubn's tyrosine kinase (BTK), alpha-D-galactosidase A (GLA), L44-like ribosomal protein (1441.) and FTP3 (FTP3) genes, complete cds	Homo seplens guanylate cyclase-activating protein 2 (GUCA1B) gene, exon 1	AU133385 NT2RP4 Homo sapiens cDNA clone NT2RP4001964 5	Human bullous pemphigoid antigen (BPAG1) mRNA, complete cds	AU130403 NT2RP3 Homo sapiens cDNA clone NT2RP3000779 5	AU130403 NT2RP3 Homo sapiens cDNA clone NT2RP3000779 5'	RC1-OT0086-220300-011-d07 OT0086 Homo sapiens cDNA	7h15h05.x1 NCL_CGAP_Co16 Homo sapiens cDNA clone IMAGE:3316089 3'	601298714F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3628923 5'	601278373F1 NIH_MGC_39 Homo sapiens cDNA clone IMAGE:3810267 5'	EST188414 HCC cell line (matastasis to liver in mouse) Il Homo sapiens cDNA 5' end similar to ribosomal	protein L.29	001389823F1 NIM_MGC_/ Homo sapiens oLNA clone IMAGE:3943391 3	Human beta-prime-adaptin (BAWZZ) gene, exon 5	Homo sapiens neuregulin 1 (NRG1),transcript variant SMDF, mRNA	Horno sapiens skeletal muscle LIM-protein 1 (FHL1) gene, complete cds	Homo sapiens hG28K mRNA for GTP-bInding protein like 1, complete cds	601591991F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3945983 5'	601335485F1 NIH_MGC_39 Homo sapiens cDNA clone IMAGE:3689564 5'	AV721647 HTB Homo sapiens cDNA clone HTBBYE09 5'	Homo sapiens spermatogenesis associated PD1 (KIAA0757) mRNA	Homo sepiens spermatogenesis associated PD1 (KIAA0757) mRNA	Homo sapiens hypothetical protein FLJ20477 (FLJ20477), mRNA
200	Top Hit Database Source	EST_HUMAN	TN	١	EST_HUMAN	EST HUMAN	EST_HUMAN	EST_HUMAN	NT	L	LN	EST HUMAN	NT	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN		EST HUMAN	ESI HUMAN	L _N	NT	L	NT	EST HUMAN	EST HUMAN	EST_HUMAN	TN	NT	LZ LZ
5	Top Hit Acession No.	AI571737.1	5032150 NT	AB037859.1			0.0E+00 BE293328.1	BE792472.1	4504686 NT	178027 1	0.0E+00 AF173227.1	0.0E+00 AU133385.1	0.0E+00 M69225.1	0.0E+00 AU130403.1	AU130403.1	0.0E+00 AW887015.1	0.0E+00 BF000018.1	0.0E+00 BE383165.1	BE531263.1		0.0E+00 AA316723.1	0.0E+00 BE794884.1	J36253.1	0.0E+00 7669517 NT	AF110763.1	0.0E+00 AB051826.1	0.0E+00 BE796376.1	0.0E+00 BE563433.1	0.0E+00 AV721647.1	5174486 NT	5174486 NT	8923441 NT
	Most Similar (Top) Hit BLAST E Value	0.0E+00/	0.0E+00		0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.05+00 (178027.1	0.0E+00/	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00		0.0E+00/	0.0E+00	0.0E+00 U36253.1	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
	Expression Signal	2.08	2.19	4.95	1.02	1.02	2.55	4.92	1.51	1.97	6.55	1.22	1.08	2.22	2.22	1.71	1.25	4.37	2.57		4.21	5.57	3.83	1.33	1.78	1.27	77.7	3.48	1.16	2.25	2.25	1.21
	ORF SEQ ID NO:	28072	28073	28077			28080		28096		28103		L	28109	28110	28112		28116							28179	28181	28187	28191		28194		28196
	SEQ ID NO:	15329	15330	15333	15334	15334	.15337	15344	15352	15361	15362	15368	15369	15371	15371	15373	15376	15377	15378	l.	- Į	- }	15439	15440	15441	15443	15448	15604	15451	15453	1	15454
	Probe SEQ ID NO:	2618	2619	2621	2622	2622	2625	2632	2641	2851	2852	2658	2659	2661	2661	2863	2666	2667	2668		2725	2726	2732	2733	2734	2736	2742	2745	2746	2748	2748	2749

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	Top Hit Descriptor	Homo sapiens hymothetical protein El 130477 /El 1354773	Home cardinate hyperature protection (1 Lozovil), IMNVA	A V651068 CL C Home canion and A Lease of Section 1500 Se	CMA-TN0444 250000 430 F05 TN044 1	OWI-1100141 -250-800-438-508 100141 Homo sapiens cDNA	OWITTING 14 1-250-900-459-508 INC141 Home sapiens cDNA	Homo sapiens cerebellar degeneration-related protein (34kD) (CDR1) mRNA	601580903E1 AILH MCC o U	Homo saciens chromosome 24 comment Lica 2020	UJ-H-BW1-amw-a07-0-11 s1 NCI COAD Sub-2 U	Homo sepiens chandraffin sulfate anatomisma / / malanassa sepiens con livings sulfate anatomisma / / malanassa sepiens chandraffin sulfate anatomisma / / malanassa sepiens chandraffin sulfate anatomisma sepiens sep	Homo sabiens ancionoletin 3 (AND 3) mobile (metalionarassociated) (CSPG4), mRNA	Homo sabilens apolonoleting (ANIC a)DNA	60208557951 NIH M.O. 02 Liminah	Homo saplans profela Agostra abounds equiens conv. Grone IMAGE: 4249915 5	AV775634 HTC Home series FINA 1:500 (PI PK I) MKNA	AV725534 HTC United Septemb Connection HTCCCA03 5	au 56d04.y1 Schnelder fetal brain 00004 Homo sanians cityla Arma MA CE 254 9669 Er oll standard	SW:R13A_HUMAN P40429 60S RIBOSOMAL PROTEIN L13A;	602071957F1 NCI_CGAP_Bm67 Homo sapiens cDNA clone IMAGF 2714670 הי	601450912F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3854642 5'	AU131494 NT2RP3 Homo sapiens cDNA clone NT2RP3002672 5'	AU131494 NT2RP3 Homo sapiens cDNA clone NT2RP3002672 5'	600944794F1 NIH_MGC_17 Homo saplens cDNA clone IMAGE.2960806 5'	600944794F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:2960806 5	glycoprotein D=Duffy group antigen [human, blood, Genomic DNA, 3068 nt]	Homo sapiens BTRCP2 mRNA for F-box and WD-tenests profile is forform C complete cds	Homo sapiens ALR-like protein mRNA, partial cds	Homo sapiens ALR-like protein mRNA, partial cds	Homo sapiens cytochrome P450, subfamily I (dlodn-inducible), polypeptide 1 (glaucoma 3, primary Infantile) (CYP181) mRNA	Homo sapiens cytochrome P450, subfamily I (dioxin-inducible), polypeptice 1 (glaucoma 3, primary infantile) (CYP1811 mBNA	H. sapiens serine hydroxymethyltransferase pseudonene
101 11000 018	Top Hit Database Source	Ę	Z	FST HIMAN	EST HIMAN	EST HIMAN	-1	Į.	EST HIMAN	LV	EST HUMAN	L LN	Z	L	T HUMAN	LZ	EST HIMAN	Т	T		EST HUMAN	HUMAN			╗	THOMAN			Į.	- LN			
	Top Hit Acession No.	8923441 NT	00 AF290195 1	0.0E+00 AV651066.1	00 BF377897 4	0.0E+00 BF377897 1	4757983 NT		0.0E+00 BE747193 1	0.0E+00 AL163201.2	0.0E+00 BF514110.1	4503098 NT	7705275 NT		BF67769	7427522	AV725534 1	0.0E+00/AV725634 1		0.0E+00 AI879163.1	0.0E+00 BF530661.1			0.0E+00 AU131494.1	0.0E+00 BE300344.1					AF264750.1	4503202 NT	4503202 NT	X85980.1
	Most Simlfar (Top) Hit BLAST E Value	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.05+00				0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00		0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0=+00	0.0E+00)	_	0.0E+00/	0.0E+00	0.0E+00	
	Expression Signal	1.21	2.5	13.89	3.13	3.13	33,8	33.8	2.58	1.15	3.38	0.99	. 2.1	2.1	4.67	1.75	13.56	13.56		7.61	5.41	5.55	1.6	1.6	20.20	8.8	777	4.35	8.39	8.39	3.52	3.52	3.52
	ORF SEQ ID NO:	28197			28199	28200	28203	28204	28209		28219		28227	28228	28229	28237	28239	28240		1,000	C\$787	28246	28247	28248	03000	76507	7000x		26144	26145	26436	26437	28258
	_ o			15456	15457		15461	ı				- 1	- 1	- 1		15496	15499	15499		15501	13304	10202	10001	15500	1.550g	2000	45545	200	13481	13491	13776	13776	15608
	Probe SEQ ID NO:	2749	2750	2751	2762	2752	2756	2756	2760	2771	2772	2778	2784	2784	2785	2791	2794	2794	0000	2796	88/3	000	7007	2002	2803	3 8	3 6	7107	0 0	22818	2822	2822	2840

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Table 4

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Single Exon Probes Expressed in Brain	Top Hit Descriptor	Unman and and a second of the	Inditio septiens 5-aminolevulinate synthase 2 (ALAS2) gene, complete cds	Home gaptens in KINA 1627 protein, partial cds	Human explicit chromosome 21 segment HS21C001	Limba AUNAK	DAYO LITO242 204200 000 000 100 100 100 100 100 100 100	FWN-F110343-261289-003-602 H 10343 Homo sapiens cDNA	History States and American II the first the f	Homo caplana chamacana of	Homo saplens zinc finder makin 2017/2015/2017	Homo contact arise finance and the factor of	Home explain the flags: Action (ZNF2Z1), mRNA	Homo equiens Zuic linger protein ZZ1 (ZNFZZ1), mRNA	Home carions gamming the company of	Nowel human mental & committee by the plasmic actin (ACTGP3) pseudogene	Historican minuted from chicomosome 1, which has similarities to BAT2 genes	However services and the contract of the contr	Home septens protocedaterin alpha C1 (PCDH-alpha-C1) mRNA, complete cds	Homo septens eukaryotic translation elongation factor 1 alpha 1 (EEF1A1) mRNA	Using social and a second of translation elongation factor 1 alpha 1 (EEF1A1) mRNA	TOTILD Seprens Serinerine on the Kinase 9 (STK9) mRNA	Homo saniens KT& Anna Anna and Little 1. Homo sapiens cDNA clone DKFZp586G0621	Homo sabiens Kladonsk gene product, mercase (Kladonsk), mKNA	Tomo seplens chondrollin sulfate antifact.	OV2-BT0434-130400-138-box barage to the subject of	OV2-BT0636-130400-138-100-150-150-150-150-150-150-150-150-150	Anno sarians attainment of the control of the contr	Home series chemosome 14 segmen 1521/006	Iono sapiens blike asso for help in the international sapients and for help in the international sapients and for help in the international sapients and for help in the international sapients and for help in the international sapients and international sapients are sapients and international sapients and international sapients and international sapients and international sapients and international sapients are sapients and international sapients and international sapients are sapients and international sapients and international sapients are sapients and international sapients are sapients and international sapients are sapients and international sapients are sapients and international sapients are sapients and international sapients are sapients and international sapients are sapients and sapients are sapients and sapients are sapients and sapients are sapients and sapients are sapients and sapients are sapients and sapients are sapients and sapients are sapients and sapients are sapients and sapients are sapients and sapients are sapients and sapients are sapients and sapients are sapients and sapients are sapients and sapients are sapients and sapients are sapients and sapients are sapients are sapients are sapients are sapients and sapients are sapients are sapients	Homo sanione EnhAA/FIDLAA\Dita	Iomo saniens en lancation of constants.	bh18d7.xt NCI_CGAP_Bm25 Homo saplens cDNA clone IMAGE;2167981 3' similar to TR:O16247	
gle Exon Prot	Top Hit Database Source	FZ	N. N.	I-N	5 5	F	EST DIMAN	EST HIMAN	L	L'Z	Į.	Į	Ż		L							T HI MAAN	NOW I			HUMAN	Т	LN LN	1	┱			HUMAN	٦
Sin	Top Hit Acession No.	+00 AF068624 1	0.0E+00 AB040960 1	0.0E+00 At 163201 2	0.0E+00 M91803 1	+00 M80902 1	0.0E+00 RE154504 1		Γ	2	7019584			D50657 1		Τ	+00 Y10658.1	Τ	03470				+00 7661883 NT			BE081896.1	l		ĺ		4758279	4503470 NT	00 AI561002.1 E	1
	Most Similar (Top) Hit BLAST E Value	0.0E+00	O OF +O	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0F±00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00 Y19210.1	0.0E+00	0.0E+00	0.0E+00	
	Expression Signal	1.34	122	2.61	2.63	1.94	1.29	1.29	1.18	2.59	1.03	1.03	1.03	18.48	18.48	1.69	7.2	1.42	47.87	47.87	2.35	1.06	0.97	76.0	2.96	5.46	5.46	2.09	2.09	4.18	1.33	20.94	1.91	
	ORF SEQ ID NO:			28263	28266	28267		28270			28272	28273	28274	28277	28278	28281			28282	28283	28282	28296	28297	28298		28300	28301	28312	28313		28321	28322	28323	
	SEQ ID NO:	15609	15611	15617	15620	15622	15625	15625	15627	15628	15629	15629	15629	15633	15633	15636	15637	15638	15639	15639	15649	15652	15653	15653	15654	15657	15657	15664	15664	15671	15673	15674	15675	
	Probe SEQ ID NO:	2841	2843	2849	2882	2854	2857	2867	2859	2860	2861	2861	2861	2866	2866	2869	2870	2871	2872	2872	2882	2885	2886	2886	2887	2880	2890	2897	2897	2805	2907	2808 7808	2909	
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9 (01/57275	Т		Ť	, T	Ŧ	7	Т	T	T	14	4				Т	<u>.</u>	T	7-	\ ≂	7	<u> </u>	_	PC	T	US	501	[//0	06	67
	Top Hit Descriptor	In18407.x1 NCI_CGAP_Bri25 Homo sapiens cDNA clone IMAGE:2167981 3' similar to TR:016247	O1624/ F44E/.2 PROTEIN. ;	AINGER PROTEIN 132	nomo sapiens protocadherin gamma C4 (PCDH-gamma-C4) mRNA, complete cds	Homo saplens mRNA for KIAA1267 protein, partial cds	Homo sapiens mRNA for KIAA1267 protein, partial cds	Tromo sapiens mKNA for KIAA 1508 protein, partial cds	Homo sapiens mRNA for KIAA1508 protein, partial cds	riomo sapiens ΚΙΑΑ0100 gene product (ΚΙΑΑ0100), mRNA Homo saniens ΚΙΑ ΔΩ100, απο	Homo septens myeloldilymphoid or mixed-lineage leukemia (trithorax (Drosophile) homolog); translocated to, 4 (MLLT4) mRNa	Homo sapiens myeloid/lymphoid or mixed-lineage leukemia (trithorax (Drosophila) homolog); translocated to, 4 (MLLT4) mRNA	7/40403.x1 NCI_CGAP_Lu24 Homo saplens cDNA clone IMAGE:3567028 3' similar to TR:Q9VLN1	7460d3x1 NOI_CGAP_Lu24 Homo sepiens cDNA clone IMAGE:3567028 3' similar to TR:09\(I\) No	GBVLN1 CG17283 PROTEIN.;	numo sapiens melanoma antigen, family B, 4 (MAGEB4), mRNA	Turno sapiens metanoma antigen, family B, 4 (MAGEB4), mRNA	nomo sapiens neurezin III (NRXN3) mRNA	n. sapiens mkna for M phase phosphoprotein 10	Hisphens NEH care even 4	H.sepiens NF-H dana evon 4	Homo septens immunoalobulin-like frenscript 10 mains 4 /// T41/	of43f09.xt Scarres feets MHT Homescale In Validity (IL.1) gene, exon 6	Homo sapiens prospero-related homoshov 4 / DBO VA VIII 1111	Homo sapiens mRNA for PKI Leibhe martial at	Homo sapiens KIAA0737 gane product (KIAA0727)	Homo sapiens calclum channel voltage dependent access.	omo sapiens calclum channel voltace described.	Homo saplens mRNA for kita 4433	Human displacement protein (CCAAAT)
	Top Hit Database Source	TO LOU	7	T			Z						HIMAN		TN TNOWAN							F	HUMAN							
	Top Hit Acession No.	561002 1	2740	28.4	033003 4	033003.4	T	T	1903	7661903 NT	5174574 NT	5174574 NT	10702.1	10702 1	4505084	AEDEORA NIT	4758827 NT	200	0.0E+00 AB033034.1					6118	0.0E+00 AB004884.1 NT	7662273 NT	5729755 NT	5729755 NT	3037852.1 NT	
	Most Similar (Top) Hit BLAST E Value	0.0E+00 A	0.0E+00 P52740	0.0E+00	0.0E+00 AB	0 OF +00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00 BF1	0.0E+00 BF1	0.0E+00	0 0F+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00 X	0.0E+00 X15309.1	0.0E+00 AF1	0.0E+00 AI149880.1	0.0E+00	0.0E+00 A	0.0E+00	0.0E+00	0.0E+00	0.0E+00 AB037852.1	0.0E+00 M74099.1
	Expression Signal	1.91	1.63	2.01	1.92	1.92	4.56	4.56	3.58	3.58	3.21	3.21	1.16	1.16	2.15	2.15	1.69	96.0	238	5.58	5.56	7.64	1.13	1.12	2.85	1.52	3.75	3.75	1.1	1.17
	ORF SEQ ID NO:	28324		28327	28339	28340	28341	28342	28345	28346	28347	28348	28352	28353	28364	28365	28370	-	28373	28374	28375	28376	1	28394	28395	28404	28406	28407	28412	28439
	Exen SEQ ID NO:				15694	15694	15695	15695	15698	15698	15699	15699	15703	15703	15712	15712	15719	15720	15723	15724	15724	15/25	R()(2)	15/46	13/4/	/2/2/	10/09	RO/01	15/63	15/81
	Probe SEQ ID NO:	2909	2911	2912	2928	2928	2829	2929	2832	2932	2933	2933	2938	2938	2946	2946	2953	2954	2957	2958	80 8	8087	2 8	200	080	200	282	200	- 1	3020

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Top Hit Descriptor	Homo sapiens semenogelln I (SEMG1) mRNA	Homo sapiens membrane-bound aminopeptidase P (XNPEP2) gene, complete cds	Homo sapiens heat shock 70kD protein 1 (HSPA1A), mRNA	Homo saplens heat shock 70kD protein 1 (HSPA1A), mRNA	soform 2 of a novel human mRNA from chromosome 22	Homo sapiens putative transcription factor CR53 (CR53) mRNA, partial cds	Homo sapiens transcription factor IGHM enhancer 3, JM11 protein, JM4 protein, JM5 protein, T54 protein, JM10 protein, A4 differentiation-dependent protein, triple LIM domain protein 6, and synaptophysin genes,	complete cds; and L-type calcium channel a>	Homo sapiens chioride channel CLC4 (ClC4) mRNA, complete cds	Human germline gene 16.1 for lg lambda L-chain C region (lgL-C16.1)	Homo sapiens F-box protein FBL5 (FBL5) mRNA, complete cds	Homo sapiens melanoma-associated antigen (MACE-C1) gene, complete cds	Homo sapiens SWI-SNF complex protein p270 mRNA, partial cds	Homo saplens NOD1 protein (NOD1) gane, exons 1, 2, and 3	Homo sapiens KiAA0469 gene product (KIAA0469), mRNA	Homo saplens olfactory receptor-like protein (OLFR 42B) gene, OLFR 42B-9110 allele, partial cds	Homo sapiens potassium voltage-gated channel, Shab-related subfamily, member 1 (KCNB1) mRNA	Human ferritin heavy chain mRNA, complete cds	Homo sapiens mRNA for KIAA0549 protein, partial cds	Homo sapiens mRNA for KIAA0549 protein, partial cds	yeg2f03.s.1 Stretagene lung (#837210) Homo saplens cDNA clone IMAGE:119453 3' similar to SP:S29539 S29639 BASIC PROTEIN, 23K - ;	601878507F1 NIH_MGC_55 Homo sapiens cDNA clone IMAGE:4107433 57	H.sapiens mRNA for gamma-glutamyltransferase	H.sapiens mRNA for gamma-glutamyltransferase	Homo sapiens neurexin III (NRXN3) mRNA	Homo saplens neurexin III (NRXN3) mRNA	Homo saplens interleukin 1 receptor, type I (IL1R1) mRNA	Homo sapiens nucleolar phosphoproteln B23 (NPM1) mRNA, complete cds	Homo sapiens solute carrier family 25 (mitochondrial carrier; adenine nuclectide translocator), member 5 (SLC25A5), nuclear gene encoding mitochondrial protein, mRNA	Homo sapiens CREB binding protein (Rubinstein-Taybi syndrome) (CREBBP) mRNA
Top Hit Database Source			LN	Į.	NT	NT		NT	NT	N	TN.	NT	NT	NT	TN	L	NT	NT	LN	NT	EST HUMAN	EST_HUMAN	N	Γ	Ā	LZ.	N	1 _N	LN	N-
Top Hit Acession No.	4506882 NT	AF195953.1	5579469 NT	5579469 NT	AL359403.1	AF017433.1		AF196779.1	AF170492.1	X03529.1	AF199355.1	AF064589.1	AF265208.1	AF149773.1	7662139 NT	0 AF042075.1	4826783 NT	20941.1	4B011121.1	0.0E+00 AB011121.1	0.0E+00 T94870.1	1.		X98922.1	4758827 NT		4504658 NT	0.0E+00 M28699.1	4502098(NT	
Most Similar (Top) Hit BLAST E Value	0.0E+00	0.0E+00	0.0E+00	0.0E+00		0.0E+00/		0.0E+00/	0.0E+00		0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00 L20941.1	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00 X98922.1	0.0E+00 X98922.1	1	0.0E+00	1	0.0E+00		0.0E+00
Expression Signal	0.71	4.62	3.74	3.74	5.88	1.6		1.98	1.19	2.8	1.54	1.72	3.2	7.83	3.42	1.21	3.74	26.91	1.32	1.32	88	0.98	4.39	4.39	1.31	1.31				
ORF SEQ ID NO:	28445		28454	28455		28460			28475	28483		28490		28510	l		28547				28567				L	١				28636
Exon SEQ ID NO:	15799	15805	15808	15808	15810	15815		15818	15832	15840	15845	15849	15869	15870	15875	15876	15902	١.	15914	}	15921	15935	•	1_	1_	15950	1	1	1	1
Probe SEQ ID NO:	3033	3039	3042	3042	3044	3049		3052	3086	3074	3080	3084	3104	3105	3110	3111	3138	3148	3151	3151	3158	3172	3178	3178	3187	3187	3195	3211	2214	3220

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Top Hit Descriptor	Homo sapiens CREB binding protein (Rubinstein-Taybl syndrome) (CREBBP) mRNA	ae87b11.s1 Stratagene schizo brain S11 Homo sapiens cDNA clone IMAGE:971133 3	Homo sapiens angiostatin binding protein 1 mRNA, complete cds	Homo sapiens angiostatin binding protein 1 mRNA, complete cds	Homo sapiens fibrillin 1 (Marfan syndrome) (FBN1) mRNA	Homo sapiens titin (TTN) mRNA.	Human connexin 43 processed pseudogene	Homo sapiens HLA class III region containing tenascin X (tenascin-X) gene, partial cds; cytochrome P450 Z1- hydroxylase (CYP21B), complement component C4 (C4B) G11, helicase (SKI2W), RD, complement factor B	(Bf), and complement component C2 (C2) genes,>	Homo sapiens very large G-protein coupled receptor-1 (VLGK1) mKNA, complete cas	Homo sapiens KIAA0440 protein (KIAA0440), mKNA	Homo sapiens KIAA0440 protein (KIAA0440), mKNA	Homo sapiens A kinase (PRKA) anchor protein 1 (AKAP1), mRNA	Homo sapiens A kinase (PRKA) anchor protein 1 (AKAP1), mKNA	Homo sapiens SWI-SNF complex protein p270 mRNA, partial cds	Homo sapiens hypothetical protein FLJ20695 (FLJ20695), mRNA	Homo sapiens death receptor 6 (DK6), mKNA	ou58e08.s1 NCI_CGAP_Br2 Homo saplens cDNA done IMA GE:1632038 3	Homo sapiens G protein-coupled receptor 24 (GPR24), mRNA	TEST08.x2 NCI_CGAP_Pan1 Homo sapiens cDNA clone IMAGE::22222535 3' similar to SW:RL11_FA1 P25121 60S RIBOSOMAL PROTEIN L11, ;cortains Alu repetitive element;	Homo sapiens telomerase reverse transcriptase (TERT) gene, exons 1-6	Homo sapiens talomerase reverse transcriptase (TERT) gene, exons 1-6	Homo sapiens hormonally upregulated neu tumor-associated kinase (HUNK), mRNA	Homo sapiens hormonally upregulated neu tumor-associated kinase (HUNK), mKNA	Homo sapiens caspase 8, apoptosis-related cysteine protease (CAS/RS) mKNA	Homo sapiens caspase 8, apoptosis-related cysteine protease (CASP8) mKNA	Homo sapiens pyrin (MEFV) gene, complete cds	Homo sapiens mRNA for KIAA1507 protein, partial cds	601464995F1 NIH_MGC_67 Homo sapiens cDNA clone IMAGE:3868246 5	wb10f04.x1 NCI_CGAP_GC8 Homo sapiens cUNA clone IMAGE:23052/9.3 similar to TR.C91929 CB1929 ZB1054 FINGER PROTEIN.;	AU123664 NT2RM2 Homo sapiens cDNA clone NT2RM2000735 5	
Top Hit Database Source	NT	EST_HUMAN	NT	NT	NT	TN	NT		LN	LN	TN	IN	IN	LN	NT	LΝ	ΙN	EST_HUMAN	1	EST HIMAN	Ę	Ę	N	NT	LN	FZ	ΙN	TN	EST_HUMAN	EST_HUMAN	EST HUMAN	
Top Hit Acession No.	4758055 NT	AA774783.1	AF286598.1	AF286598.1	4557590 NT	4507720 NT	M65189.1		AF019413.1	AF055084.1	7662125 NT	7662125 NT	4502014 NT	4502014 NT	AF265208.1	8923624 NT	7657038 NT	0.0E+00 AA994842.1	4885312 NT	A 1580304 1	0.0E+00 AF128893.1	0.0E+00 AF128893.1	7657213 NT	7657213 NT	4502582 NT	4502582 NT	0.0E+00 AF111163.1	0.0E+00 AB040940.1	0.0E+00 BE779039.1	0.0E+00 Al632569.1	AU123664.1	
Most Similar (Top) Hit BLAST E Value	0.0E+00		0.0E+00	0.0E+00	0.0E+00		0.0E+00		0.0E+00/	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	100	00E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	_		1
Expression Signal	0.85	3.07	5.43	5.43	1.36	F	5.8		1.26	3.96	1.11	1.11	2.09	2.09	2.25	1.17	1.22	1.09	1 18		0.33	233	1.22	1.22	1.27	1.27	9.77	1.29	0.84	0.72		F
ORF SEQ ID NO:	28637		_						28668	28670		L	L								28/20	1		L								
Exen SEQ ID NO:	15983	15985	15993	15993	16004	16010	16017		16018	16020	16023	16023	1		1	1	1_	1	1	1	16008	L.	1_	16087		1	Į.	1	1	1	1.	150
Probe SEQ ID NO:	3220	3222	3230	3230	3242	3248	3255		3256	3258	3261	3261	3289	3269	3285	3286	3297	3300	2300	3	3318	3320	3327	3327	3320	33.0	2222	3335	3342	3350	3 3	2397

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Single Exon Probes Expressed in Brain	Top Hit Descriptor		Homo sapiens offactory receptor, family 10, subfamily C member 1 (OB40C4) - DMA	Homo sapiens offactory receptor, family 10, suhfamily, C. momber 1 (Objects).	Homo sapiens neuroblastoma-amnification of the control of the cont	LOCAL 394), MKNA	From Sapiens T-type calclum channel alpha1 subunit Alpha1I-a isoform (CACNA1I) mRNA, complete cds	MRT - SIVU033-100400-001-c08 SN0033 Homo sapiens cDNA	Homo sapiens KIAA0952 protein (KIAA0952), mRNA	indrio septens KIAA0952 protein (KIAA0952), mRNA	Homo sapiens beaded filament structural protein 1, filansin (BFSP1) mRNA Homo sapiens leukocyte immunoglobulin-like receptor, subfamily A (with TM domain) member 2.1. ii BAAN	MKNA	Fromo sapiens skeletal muscle LIM-protein 1 (FHL1) gene, complete cds	Round septems death receptor 6 (DR6), mRNA Bacteriophage P1 replication region including read, park, and many	hoompatibility determinants	Homo sapiens profein brosine phosphatase section 1 Triberal	wp14d10.X1 NCI_CGAP_Lung Princeptors, receptor type, 1 (P1PK1), mRNA NEURAL CELL ADHESTON MOLECH TO SEPTION Alone IMAGE:2464819 3' similar to TR:073634 O73634 NEURAL CELL ADHESTON MOLECH IN	wp14d10.x1 NCI_CGAP_Lu19 Homo saplens cDNA clone IMAGE:2464819 3' similar to TR-073634 073634	NEURAL CELL ADHESION MOLECULE.	namo sapiens mRNA for putative ankyrin-repeat containing protein (ORF1)	Tromo sapiens Y-fos FBJ murine osteosarcoma viral oncogene homolog (FOS), mRNA	The septents vides red murine osteosercoma viral oncogene homolog (FOS), mRNA	Himan MOS4A (AMI ARADO)	Purcein MDS IA (AMILLIMIDS) TUSion) mRNA, partial cds	Homo capiens hypothetical protein (AF038169), mRNA	Hans septents hypothetical protein (AF038169), mRNA	Trumo saprens cell-line KG1 transcriptional regulatory protein p54 mRNA, complete cds	Home sapiens certime KG1 transcriptional regulatory protein p54 mRNA, complete cds	FOUND Saprens Chromosome 21 unknown mRNA	SOLITASSIZET NIT MIGG 15 Homo sapiens cDNA clone IMAGE:3051373 5	OD 1143533F1 NIH_MGC_15 Hamo sapiens cDNA clone IMAGE:3051373 5'	orno septens boursavin volugge-gared channel, Isk-related family, member 2 (KCNE2) mRNA
gle Exon Pro	Top Hit Database Source		LN	LN	IN	E	FOT CINAM	LO LONIAN	Z Z		2		Z				EST HUMAN		TO MAIN										HIMAN	Т	NI-MINIOLI -	
Sin	Top Hit Acession No.				7706239 NT	100 AF211189 1		ZERSANA NIT				0 0F+00 AF110762 4	37038			7427522 NT	0.0E+00 Al936159.1	0.0E+00 A1035150 1		5233	6552332 NT	114123 1		2558718	9558718 NT	F045452 1 NT			Γ	Γ	26795	
	Most Similar (Top) Hit BLAST E Value	20.70	0.05+00	0.0E+00	0.0E+00	0.0E+00	0.00	0 OE+00	0.0E+00	0 OH	00+40	0 05+00	0.0		0.0E+00 K02380.1	0.0E+00	0.0E+00	0.05+00.0	4 00+100	0.0 H+00	0.0E+00	0.0E+00 M14123 4	0.0E+00 U43293.1	0.0E+00	0.0E+00	0.0E+00.A	0.0E+00 AF045452 1	0.0E+00 AF231922 1	0.0E+00 BE304791 1	0.0E+00 BE3047911	0.0E+00	
	Expression Signal	900	200	08.0	1.36	1.42	0.99	1.88	1.66	1.34	5.37	1.75	2.4		5.47	1.5	3.54	3.54	2.48	1.82	1.82	1.31	5.4	1.18	1.18	1.84	1.84	1.12	2.21	2.21	0.92	
	ORF SEQ ID NO:		00000	20000	01007	28811		28824	28825	28826	28827	28179	28840	70007	1007	28846	28853	28854	28859	28868	28869	28874	28880	28884	28885	28890	28891	28898	28905	28906	28909	
	SEQ ID NO:	16156	ı	1	ı	16160		16175	16175	16176	16178	15441	16191	16104	10101	10190	16204	16204	16208	16215	16215	16220	16226	16231	16231	16235	16235	16241	16252	16252	16255	
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SEC D SEC D SEC D SEC Expression Top HI Top HI Acas State Top HI Top HI Top HI Acas State Top HI			$\neg T$		۲	T	Т	Т	T	T	T	T	_	Т	Т	Т	т	Т	Т	т	Ť	T	<u> </u>	4	7-	T	 T	Ť	<u></u>	·		**	* 1917		_
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Exon NO: ORF SEQ ID NO: Expression Signal (Top) Hilt (Top) Hilt Value Top Hit Acess NO: 16260 28914 0.89 0.0E+00 AI384007.1 16285 28940 1.11 0.0E+00 AI384007.1 16285 28940 1.29 0.0E+00 AI384007.1 16285 28940 1.29 0.0E+00 AI384007.1 16286 28941 0.85 0.0E+00 AI384007.1 16287 28942 1.21 0.0E+00 AI33204.1 16287 28948 1.21 0.0E+00 AI0840909.1 16387 28948 1.21 0.0E+00 AI0840909.1 16319 28948 1.37 0.0E+00 AI0840909.1 16319 28948 1.04 0.0E+00 AI0840909.1 16319 28946 1.04 0.0E+00 AI0840909.1 16319 28956 0.74 0.0E+00 AI084090.1 16331 28956 0.74 0.0E+00 AI084090.1 16356 </td <td>gle Exon Prob</td> <td>Top Hit Database Source</td> <td></td> <td>NAW C</td> <td>TAYAN.</td> <td>NAMO E</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>HOMAN</td> <td></td> <td>- DOMAN</td> <td></td> <td>T</td> <td>Т</td> <td>Т</td> <td>т.</td> <td>T CIT IN A A A I</td> <td>Т</td> <td>- ICIMPA</td> <td></td> <td>T_HUMAN</td> <td>1</td>	gle Exon Prob	Top Hit Database Source		NAW C	TAYAN.	NAMO E							HOMAN		- DOMAN		T	Т	Т	т.	T CIT IN A A A I	Т	- ICIMPA											T_HUMAN	1
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Exon SEQ ID ID ID ID ID ID ID ID ID ID ID ID ID	.	Expression Signal	0.89	1.11	1.29	0.85	1.74	1.49	1.21	1.37	1.37	08.0	1,04	4.17	0.78	8.46	6.0	0.74	0.74	0.95	1.08	1.08	1.42	0.93	0.82	0.82	2.67	33.2	2.8	3.38	3.38	1.85	1.85	1.62	
0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		ORF SEQ ID NO:						28945	28948	28963	28964		28967			28976	28988	28996	28997		28999	29000	29004	29007	29015	29016	29030		29049	29051	29052	29061	29062	29065	
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		Probe SEQ ID NO:	3504	3507	3529	3530	3531	3539	3542	3561	3561	3582	3564	3569	3576	3577	3589	3603	3603	3604	3606	3606	3809	3811	3621	3621	3838	3642	3658	3660	3660	3668	3668	3671	

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	Top Hit Descriptor	Homo sapiens matrix metalloproteinase 24 (membrano-inserted) (MMP24), mRNA	Home satiens mRNA for KIAA0796 protein, partial cds	Homo conjugar mRNA for KIAA0910 protein partial cds	1 Unit outputs in investigation of the control of t	Homo sapiens minny for interval of process, paragraphics of the control of the co	Homo sapiens KIAAUo U proteinas (K.A.N.O.), III. V.O.	Homo sapiens KIAA0670 protein/acinus (KIAA0070), mixiva	U.HBWO-ajs-6-12-U-U.ST NCI COAP Suba Homo captens CDNA close IMAGE-273302-3	UI-H-BWO-gjs-G-12-U-UI-ST NCI COAP Jound nome septems contact and	aa06g01.r1 Scares_NhHMPU_S1 Homo Sapiens CUNA Clote INMACE.012450.0 Similar COSW.KRB4_SHEEP P02445 KERATIN, HIGH-SULFUR MATRIX PROTEIN, IIIB4. [1];	Homo sapiens mRNA for KIAA0903 protein, partiel cds	Homo sapiens similar to rat integral membrane glycoprotein POM121 (POM1211-1), III. V.	Homo sapiens mRNA for KIAA1414 protein, partial cds	Homo sapiens KIAA0569 gene product (KIAA0569), mkiva	Homo sapiens ribosomal protein SZ (RPSZ) mRNA	Homo sapiens viets awan erythropiastosis virus E.zo unodelne letated (E.N.C.), Illinory	Homo sapiens v-ets avian eryintoplastics virus i.g. onlogenor canca (E. C.), missis	Homo sapiens DNA mismatch repair protein (MLTh3) gene, compress cus	Pan troglodytes olractory receptor (F 1 K200) gene, pausa (F DM104 / POM104 1) mRNA	Homo saplens similar to rat integral memorane glycoprotein r Owi (2) (r Owi 2 i L V), in wy	Homo sapiens similar to rat integral membrane glycoplocali i Comizzi (Comizzi), mississi i Comizzi (Comizzi (Co	Homo sapiens radis, member had discussing (care)	Mus musculus junctophilin 1 (Jp1-pending), minny 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	teoZ710X1 Soares INFL 1 GBC 31 Hollin squells CDVA complete cds	Homo sapiens protocadnerin pera 3 (T.C.D.) mistro, compress des	Homo sapiens desmoplakin (UPI), UPII) (USP) minna	Homo sepiens ATP-sensitive inwardly rectifying K-channel subunit (KCNJ6/BIR1) gene, complete cds	Homo sapiens methyl CpG binding protein 2 (MECP2), mixiva	Homo sapiens KIAA0569 gene product (KIAA0569), mRNA	Homo sapiens myosin light chain kinase Isoform 2 (MLCK) mRNA, complete cds	Homo sapiens myosln light chain kinase isoform 2 (MLCK) mRNA, complete cds	Horno sapiens gene for TMEM1 and PWP2, complete and partial cds	Homo sapiens gene for TMEM1 and PWP2, complete and partial cds	
<u>}</u>	Top Hit Database Source	 	F14	- 1	Z	L	LN.	. I	EST_HUMAN	EST HUMAN	EST_HUMAN	NT	NT	LN	NT	LN	NT	LN.	Į.	Z	Z	L	LZ.	. 1	EST HUMAN	N	뇐	TN	LN	LN	LN	N.	LZ.	LN	
<u>}</u>	Top Hit Acession No.	5729928 NT	7 0000	3339.1			7662237 NT	2237	38134.1	38134.1			7657468 NT	0.0E+00 AB037835.1	7662183 NT	4506718 NT	7657065 NT	7657065	١	0.0E+00 AF179733.1	7657468 NT	7657468 NT	4759011 NT	10181139 NT	1377699.1	0.0E+00 AF152496.1	4758199	378685.1	7710148 NT	7662183 NT	AF069601.2	0.0E+00 AF069601.2	0.0E+00 AB001523.1	0 0E±00 AB001523 1	TDOG I CEC. I
-	Most Similar (Top) Hit BLAST E Value	0 0E+00		0.0E+00/ABUT	0.0E+00 AB02	0.0E+00 AB020717.1	0.0E+00	0.0E+00	0.0E+00 A	0.0E+00 AW29	0.0E+00 AA483859.1	0.0E+00 AB020710.1	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+0d	0.0E+00 AF19	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00 AI37	0.0E+00	0.0E+00	0.0E+00 S78685.1							
	Expression Signal	1.53		1.81	1.1	1.1	22.21	22.21	4.35	4.35	1.08	1.14	3.31	0.82	4.9	4.29	1.08	1.08	0.71	2.88			1.24	1.01	1.01	1.97	1.14	10.39							
	ORF SEQ ID NO:	79000			29071	29072	29074	29075	29084	29085	29105		L	L				29139	L	29185			29193	29194			29198	29202						1	23214
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	Probe SEQ ID NO:	0000	2/80	3675	3677	3677	3679	3679	3692	3692	3714	3718	3721	3730	3742	3745	3751	3751	3800	3802	3804	3804	3808	3809	3812	3813	3814	3818	2000	200	8	3824	9202	300	3829

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Expn NO: CPF SEQ ID NO: Expression Signal (Top Hit Acession Vetlue Most Similar Fabrus Top Hit Acession Vetlue Top Hit Acession Vetlue Top Hit Acession Source Top Hit Acession Acession Acession Acces				Homo sapiens transient receptor potential channel 5 (TRPC5), mRNA	Homo sapiens chromosome X open reading frame 5 (CXORF5) mRNA	Homo seplens chromosome X open reading frame 5 (CXORF5) mRNA	Human zinc finger protein ZNF134 mRNA, complete cds	Homo sapiens intersectin short isoform (ITSN) mRNA, complete cds	Homo sapiens potassium voltage gated channel Shah salas and a sapiens potassium voltage gated channel Shah	Home series familial market the series familial visit of the control of the contr	Home contains a miller in entrained from the protein 2 (FMR2) gene, exch 11	Homo saniens ambinitudia 2003-interacting protein 1 (SRRP129), mRNA	wk01f01 x1 NCI_CGAP_Lym12 Home sapiens cDNA clone IMAGE:2411065 3' similar to TR-O43340	U43340 R28830_2.;contains element PTR7 repetitive element;	Homo sapiens ribosomal protein S8 (RPS8), mRNA	DKFZp434N0413_r1 434 (synonym: htes3) Homo sapiens cDNA clone DKFZp434N0413 5	Homo saplens AP1 gamma subunit binding protein 1 (AP1GBP1), mRNA	Homo sapiens AP1 gamma subunit binding protein 1 (AP1GBP1), mRNA	Homo sapiens glutamate receptor, metabotropic 3 (GRM3) mRNA	Homo sapiens melanoma antigen, family B, 1 (MAGEB1) mRNA	Homo sapiens HBP17 heparin-binding and FGF-binding protein gene, complete cds	Homo sapiens ryanodine receptor 3 (RYR3) mRNA	Homo sapiens zinc finger protein (KIAA0412) mRNA	RCS-H (0860-170800-011-a12 HT0860 Homo sepiens cDNA	Matrix remodeling associated one 5	MXRA5 Human matrix tissue expression library Homo sapiens cDNA clone incyte 1996726 similar to MXRA5	war ix remodeling associated gene 5	FIGURE Septents P-box protein Fbl3b (FBL3B) mRNA, partial cds	OLITEDIS-BING-U7-U-U.ST NCI_CGAP_Sub5 Homo sapiens cDNA clone IMAGE:2736949 3'	Survey of the Micc. 44 Homo sepiens cDNA clone IMAGE:3608800 5	month of the control	And 10 Septemble Idundrate 2-Sulfatase (Hunter syndrome) (IDS), transcript variant 1, mRNA	201130027F1 NIT _WGC_/ Homo sapiens cDNA clone IMAGE:3537774 5	Junan G2 protein mRNA, partial cds
Expn NO: ORF SEQ ID ID NO: Expression Signal (Top) Hit Top Hit Aces: No. 16582 29216 1.12 0.0E+00 6912 16586 29222 8.16 0.0E+00 4503 16589 29222 8.16 0.0E+00 4503 16589 29222 8.16 0.0E+00 4503 16589 29222 1.05 0.0E+00 AF144881 16589 29222 1.05 0.0E+00 AF02615.1 16589 29223 1.05 0.0E+00 AF012615.1 16589 29235 1.05 0.0E+00 AF0277.1 16598 29235 1.05 0.0E+00 AF0277.1 16599 29235 1.23 0.0E+00 AF0677.1 16598 29235 1.23 0.0E+00 AF0677.1 16599 2924 4.24 0.0E+00 AF0677.1 16590 2924 4.24 0.0E+00 AF145412.1 16617 29259 1.18 <	igle Exon Pro	Top Hit Database Source	إ	Z	ž į	Ž.	IN	Ž	Z	Į.	Į.	Ż	100	ES - HOMAN	1	-1.					-	1	TOT LINES	NAW I			No long	T LI IMANI	Т	7	NO.	T HI IMAN	T	П
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Exon NO: ORF SEQ Express NO: Express No: Express No: Signe		Most Similar (Top) Hit BLAST E Value	000	00+40	00+100	20 10 0	00-100		0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.00	0 0F+00	0 0F+00	0.0F+00	0 0F+00	00+100	001100	0.05+00	0.05+00	005+00	0 0F+00 B		0.0E+00 A	0.0E+00 A)	0.0E+001AF	0.0E+00/A	0.0E+00 BE	0.0E+00 AV	0.0E+00	0.0E+00 BE	0.0E+00 BE	0.0E+00 U1
Exan ORF SEQ ID ORF 16582 16582 16586 16586 16586 2 16587 2 16598 2 16599 2 16591 2 16592 2 16593 2 16694 2 16671 2 16672 2 16674 2 16674 2 16674 2 16674 2 16677 2 16677 2 16677 2 16677 2 16677 2 16677 2 16677 2 16702 2		Expression Signal	1.12	8.18	8.18	40	0 69		2.96	1.05	1.43	0.74	2.16	4.24	1.35	1.28	1.28	3.22	1 82	1.18	12	1.47	1.18		1.05	1.05	1.82	-	2.81	0.92	2.49	0.98	0.98	1.42
									29229	1		29235	29244	29248	29251	29256	29257	29259		29263	29273	29277	29286	-	29288	29289	29295	29298	29303	29311	29312	29313	29314	29339
Probe SEQ ID NO: 3831 3835 3835 3844 3844 3844 3844 3844 3844					L	L				-1	- 1	16598	16606	16609	16612	18617	16617	16619	16621	16625	16634	16638	16846	-	16648	16648	16654	16657	16662	16670	16672	16873	16673	16702
		Probe SEQ ID NO:	3831	3835	3835	3837	3838		387	E :	3845	3847	3856	3859	3862	3867	3867	3869	3871	3875	3884	3888	3896		3898	3898	3904	3907	3912	3920	3922	3923	3923	3962

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Top Hit Descriptor	Human G2 protein mRNA, partial cds	Human G2 protein mRNA, partial cds	Homo sapiens cancer-testis antigen CT10 (CT10) gene, complete cds	Homo sapiens cancer-testis antigen CT10 (CT10) gene, complete cds	Human MHC class II lymphocyte antigen DPw4-beta-2 pseudogene, exon 2	Homo sapiens chromosome 21 segment HS21C103	Novel human gene mapping to chomosome 20	Homo sapiens chromosome 21 segment HS210084	Homo sapiens chromosome 21 segment HS21C068	Homo sapiens eukaryotic translation elongation factor 1 alpha 1 (EEF1A1) mKNA	tt55g08.x1 NCI_CGAP_GC6 Homo sapiens cDNA clone IMAGE:ZZ44734 3 similar to 1 K:O60309 C60309 KIAA0563 PROTEIN ;	Homo sapiens KIAA0569 gene product (KIAA0569), mRNA	Human zinc finger protein ZNF133	xz91e10.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:2871594 3'	Chlorocebus aethiops mRNA for ribosomal protein S4X, complete cds	Homo sapiens mRNA for UGA suppressor tRNA-associated antigenic protein (txNA48 gene)	Homo sapiens mRNA for KIAA0316 protein, partial cds	Homo sapiens chromosome 21 segment HS210003	Homo sapiens myelin transcription factor 1-like (MYT1-I) mRNA, complete cds	Homo sapiens mRNA for rapa-2 (rapa gene)	Homo sapiens mRNA for rapa-2 (rapa gene)	Homo sapiens retinoblastoma-binding protein 4 (KBBP4) mKNA	Homo sapiens retnoblastoma-binding protein 4 (KBB14) mKNA	Homo sapiens G protein-coupled receptor 21 (GPRZ1), mRNA	Homo sapiens mRNA for KIAA0287 gene, partial cds	Home capiens ras GTPase activating protein-like (NGAP) mKNA	Homo sapiens IMP (inosine monophosphate) dehydrogenase 1 (IMPDH1), mKNA	Novel human mRNA from chromosome 1, which has similarities to BAT2 genes	Homo sapiens DGCR8 (DGCR8) mRNA, complete cds	Homo saplens protein kinase, X-linked (PRKX) mRNA	Homo sapiens protein kinase, X-linked (PRKX) mRNA	Homo sapiens butyrophilin, subfamily 3, member A2 (B1N3A2), mRNA	Homo sapiens GA-binding protein danscription factor, alpha subunit (outu.) (CABLA), titana
Top Hit Detebase Source	LN	LN	NT	L	LN L	TN	LN	NT	NŢ	LN	EST HUMAN	Z	ΕŽ	EST_HUMAN	TN	L	F	NT	ΝΤ	LN	TN	2	N	NT	LN.	١	LΝ	TN	NT	LN.	LN.	LN.	LNT
Top Hit Acession No.	U10991.1	U10991.1	AF116195.1	AF116195.1	MZ3910.1	AL163303.2	AL118494.1	AL163284.2	0.0E+00 AL163268.2	4503470 NT	0 0E+00 AI657076.1	7662183 NT		1.00		0.0E+00 AJ238617.1	0.0E+00 AB002314.2	4L163203.2	0.0E+00 AF036943.1	0.0E+00 AJ277276.1	0.0E+00 AJ277276.1	5032026 NT	5032026 NT	. 4885306 NT	0.0E+00 AB006625.1	4758807 NT	11419297 NT	0.0E+00 AL096857.1	AF165527.1	0.0E+00 4826947 NT	4826947 NT		4503854 NT
	0.0E+00	0.0E+00	0.0E+00		0.0E+00	0.0E+00/	0.0E+00	0.0E+00	0.0E+00	0.0E+00	00+300	0.0E+00	0.0E+00 U09366.1	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
Expression Signal	1.42	1.42	4.69	4.69	4.39	6.74	1.35	3.22	1.71	27.98	4	2.97	2.65	0.95	6.33	3.72	1.32	1.04	1.18	2.65	2.65	6.29	6.29	4.7	5.98	1.11	5.87	1.94	2.71	0.82	0.82		1.08
ORF SEQ ID NO:			29344	١			١	29361				29382					29418					29429		29442	29443				L				29469
Exon SEQ ID NO:	16702	16702	16706	16706	16715	16717	16724	16727	16735	16747	16750	16751	16752	16759	16769	Ι.	L		L	L	1	<u> </u>	16799	<u> </u>	_	L	L	L	L	L	L	L	16842
Probe SEQ ID NO:	3952	3952	3957	3957	3966	3968	3975	3979	3987	3999	7000	4005	4004	4013	4024	4033	4045	4046	4047	4048	4048	4054	4054	4069	4070	4073	4074	4075	4082	409	409	4097	4099

Page 499 of 536 Table 4 Single Exon Probes Expressed in Brain

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Single EXVITTURES Explicated in Dialit	Top Hit Descriptor	Homo sapiens GA-binding protein franscription factor, alpha subunit (60kD) (GABPA), mRNA	Homo sapiens mRNA for KIAA0895 protein, partial cds	wu04d04.x1 NCI_CGAP_GC6 Homo sapiens cDNA clone IMAGE:25159753'	wu04d04.x1 NCI_CGAP_GC6 Homo saplens cDNA clone IMAGE:25159753'	MR1-HT0707-100500-001-a02 HT0707 Homo sapiens cDNA	MR1-HT0707-100500-001-a02 HT0707 Homo sapiens cDNA	601120778F1 NIH_MGC_20 Home sapiens cDNA clone IMAGE:2967690 5	Homo sapiens mRNA for KIAA1125 protein, partial cds	Homo sapiens mRNA for KIAA1125 protein, partial cds	Homo sapiens nuclear receptor coactivator 3 (NCOA3), mRNA	bas1604.x1 NIH_MGC_10 Homo saplens cDNA done IMAGE:2900095 3' similar to SW:THI2_BOVIN Q95108 MITOCHONDRIAL THIOREDOXIN PRECURSOR;	UI-HF-BM0-adx-c-02-0-UI.r1 NIH_MGC_38 Homo saplens cDNA clone IMAGE:3063147 51	Homo sapiens hypothetical protein FLJ10498 (FLJ10498), mRNA	Homo saplens hypothetical protein FLJ10498 (FLJ10498), mRNA	Homo sapters polycystic kidney disease (polycystin) and REJ (sperm receptor for egg jelly, sea urchin homologyline (DRDEF) mPNA	The state of the s	Zubanu/, s1 Sogres_testis_nn1 Formo sapiens cunna clone IMAGE:/4319/ 3 similar to contains Alu repetitive element;contains element MER35 repetitive element;	zu68h07.s1 Soares_testis_NHT Homo saplens cDNA clone IMAGE:743197 3' similar to contains Alu	repetitive element contains element MER35 repetitive element ;	Homo sapiens chromosome 21 segment HS21C103	Human apolipoprotein B-100 mRNA, complete cds	PM2-DT0023-080300-004-a08 DT0023 Homo sapiens cDNA	Homo sapiens myelodysplasia syndrome 1 (MDS1) mRNA	Homo sapiens myelodysplasia syndrome 1 (MDS1) mRNA	Homo sepiens F-box protein Fbl4 (FBL4) mRNA, partial cds	qd23f06.x1 Soares_placenta_8to8weeks_2nbHP8to9W Homo sapiens cDNA clone IMAGE:1724579 3: similar to contains MER20.b2 MER20 repetitive element:	Human CBFA3 (Cbfa3) gene, partial cds	Homo sapisns proprotein convertase subtilisin/kexin type 2 (PCSK2) mRNA	Homo sapiens protein kinase C, nu (PRKCN), mRNA	Homo sapiens protein kinase C, nu (PRKCN), mRNA	Human G2 protein mRNA, partial cds
JIE EXUII FIUL	Top Hit Database Source	TN	IN	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	TN	TN	LN-	EST HUMAN	EST HUMAN	N	NT	į.		EST HUMAN		EST HUMAN	NT	NT	EST_HUMAN	NT	NT	NT	EST HUMAN	NT	NT	NT	NT	LN
	Top Hit Acesslan No.	4503854 NT	0.0E+00 AB020702.1	0.0E+00 Al982597.1	0.0E+00 AI982597.1	0.0E+00 BE184856.1	0.0E+00 BE184856.1	00 BE274217.1		0.0E+00 AB032951.1	5729725 NT	0.0E+00 AW675599.1	0.0E+00 AW 408788.1	8922466 NT	8922466 NT	TIM 0000 1 1 2	201110	0.0E+00 AA401438.1					0.0E+00 AW936689.1	4826827 NT	4826827 NT	-00 AF174590.1	0 0F+00 A189844.1		4505646 NT	6563384 NT	6563384 NT	00 U10991.1
	Most Similar (Top) Hit BLAST E	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	001	0.05	0.0E+00/		0.0E+00	0.0E+00	0.0E+00 J02610.1	0.0E+00	0.0E+00	0.0E+00	00+30.0	0.01	0.0E+00 U14520.1	0.0E+00	0.0E+00	0.0E+00	0.0E+00
	Expression Signal	1.08	68.0	4.93	4.93	0.82	0.82	2.34	0.99	0.99	2.24	5.52	1.14	1.26	1.26		9	8.97		8.97	1.01	4.08	0.83	0.74	0.74	. 4.7	2.52	4.32	1.35	0.76	0.76	1.58
	ORF SEQ ID NO:		29476	29482		29485	29486			29496			29511	29514	29515		1	29537		29538		29606		L						29657		29664
	Exon SEQ ID NO:	16842	16850	16855	16855	16857	16857	16862	16868	16868	16870	١.	l	16884	16884	76000	200	16909	L	16909	16946	16981	16996	17002	17002	17004	İ		1_		L	17036
	Probe SEQ ID NO:	4099	4107	4112	4112	4115	4115	4120	4126	4126	4128	4135	4140	4142	4142		4131	4169		4169	4205	4240	4255	4261	4261	4263	4370	4273	4285	4291	4291	4297

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xc68e08.x1 NCI_CGAP_Eso2 Homo saplens cDNA clone IMAGE.2589446 3' similar to SW.AHNK_HUMAN wc56b02.x1 NCI_CGAP_Pr28 Homo sapiens cDNA clone iMAGE:2322603 3' similar to contains MER22.b2 xg68e10.x1 NCI_CGAP_Ut4 Homo sapiens cDNA clone IMAGE:2633514 3' similar to TR.P97365 P97365 ZINC FINGER PROTEIN 64; Homo sapiens plasma membrane calcium ATPase isoform 1 (ATP2B1) gene, alternative splice products, seq1329 b4HB3MA Cot8-HAP-Ft Homo sepiens cDNA clone b4HB3MA-COT8-HAP-Ft205 5' seq1329 b4HB3MA-COT8-HAP-Ft205 5' Homo saptens myosin regulatory light chain interacting protein (MIR), mRNA Homo sapiens membrane-bound eminopeptidase P (XNPEP2) gene, complete cds Q09668 NEUROBLAST DIFFERENTIATION ASSOCIATED PROTEIN AHNAK : Homo sapiens LIM domain kinase 2 (LIMK2), transcript variant 2e, mRNA Homo sapiens COMPLEMENT COMPONENT C1q RECEPTOR (C1QR), mRNA Homo sapiens mRNA for putative ankyrin-repeat containing protein (ORF1)
Homo sapiens G protein-coupled receptor 50 (GPR50) mRNA
Homo sapiens serine-threonine protein kinase (MNBH) mRNA, complete cds Homo sapiens gap junction protein connexin-36 (CX36) gene, complete cds Homo sapiens caudal type homeo box transcription factor 4 (CDX4), mRNA Homo sapiens mRNA for putative ankyrin-repeat containing protein (ORF1) Top Hit Descriptar Homo sapiens chromosome 21 segment HS21C007 PM1-HT0305-101199-002-d03 HT0305 Homo sapiens cDNA Homo sapiens KIAA0390 gene product (KIAA0390), mRNA Homo sapiens ACTN2 gene for alpha-Actinin 2, exon 10 Homo sapiens Xq pseudoautosomal region; segment 2/2 Homo sapiens ACTN2 gene for alpha-Actinin 2, exon 10 H.sapiens H4/d gene for H4 histone Homo sapiens KIAA0390 gene product (KIAA0390), Human endogenous retrovirus HERV-K10 Human G2 protein mRNA, partial cds H.sapiens H4/d gene for H4 histone Homo sapiens HPS1 gene, intron 5 Single Exon Probes Expressed in Brain PTR5 repetitive element H.sapiens H2B/h gene H.sapiens H2B/h gene partial cds EST_HUMAN EST_HUMAN EST_HUMAN EST_HUMAN HUMAN HUMAN Top Hit Database Source EST 7662091 NT 7662091 NT F ΙN IN 뉟 z Ż 7019456 NT 8051619 4758467 4885126 6912281 Top Hit Acesslon 0.0E+00 AW166933.1 0.0E+00 AW084964.1 AJ271736.1 0.0E+00 AI696698.1 0.0E+00 AL163207.2 0.0E+00 AW381570.1 0.0E+00 478 0.0E+00 AF108830.1 AJ249765.1 0.0E+00 AJ249765.1 0.0E+00 AJ278120.1 0.0E+00 AJ278120.1 AF153047.2 0.0E+00 AF200629.1 ġ 0.0E+00 M14123. L14561.1 Z80780.1 U10991 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 (Top) Hit BLAST E Value 0.73 2.88 8.62 8.62 12.59 0.98 6.5 1.25 3.17 28 8.31 0.94 1.42 1.25 8 5.68 1.57 0.93 8.82 1.99 1.99 1.29 2.88 Expression Signal 29740 29778 29842 29843 29845 29717 29725 29814 29828 29835 29709 29711 29724 29741 29766 29779 29815 29831 ORF SEQ 29671 2971 Ö N Ö 17202 17210 17046 17076 17105 17137 17151 17151 17189 17189 17205 SEQ ID 17080 17081 17091 17091 17192 17881 ö Probe SEQ ID 4342 4348 4348 4366 4408 4414 4414 4436 4466) 4470 4473 4475 4481 4353 4353 4367 4481 4337 4400 4453 4453 4456 4468 8483 484 4297 4307 4341 54 ġ

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Single Exon Probes Expressed in Brain	Top Hit Descriptor		Homo sapiens ATP-sensitive inwardly rectifying K-channel subunit (KCN IstalB4)	Homo sapiens pyrin (MEFV) gene, complete cds	Hamo sapiens pyrin (MEFV) gene, complete cds	Homo sapiens zinc finger protein 195 (ZNF195), mRNA	Homo saplens syncytin precursor, mRNA, complete cds	Homo sapiens protocadherin gamma C3 (PCDH-gamma-C3) mRNA complete ad-	Homo sapiens zinc finger protein 211 (ZNF211), mRNA	Homo sapiens eukaryotic translation elongation factor 1 alpha 1 (EEF1A1) mRNA	Homo sapiens low density lipoprotein receptor-related protein 6 (LRP6) mRNA and translated and translated	Homo sapiens chondroltin sulfate proteoglycan 4 (melanoma-associated) (CSBCA)	Homo saplens calcium/calmodulin-dependent protein kinase IV (CAMK4) mRNA	Homo sapiens iduronate sulphate sulphatase (IDS) gene complete con	Homo sapiens KIAA0390 gene product (KIAA0390), mRNA	Homo sapiens KIAA0390 gene product (KIAA0390) mRNA	Homo saplens PTEN (PTEN) gene, exons 3 through 5	Homo saplens mRNA for G7c protein (G7c gene located in the class III region of the major histocompatibility complex)	Homo sepiens mRNA for G7c protein (G7c gene bocated in the class III renion of the major History	complex)	2p18g08.s1 Stratagene fetal retina 937202 Homo sapiens cDNA clone IMAGE:609854.3/	norno sapiens odz (odd Oz/ten-m, Drosophila) homolog 1 (ODZ1), mRNA	nomo sapiens chromosome 21 segment HS21C084	Wazbulls1 Soares_pineal_gland_N3HPG Homo sapiens cDNA clone IMAGE:231721 3	yezbuli,s1 Soares_pineal_gland_N3HPG Homo saplens cDNA clone IMAGE:231721 3'	nomo sapiens cyclophilin-related protein (NKTR) gene, complete cds	Homo saplens chromosome 21 segment HS21C100	Homo saplens gene for natriuretic protein, partial cds	nomo sapiens keratin 18 (KR718) mRNA	Tourno sequents Kertatin 18 (K.K.I.18) m.RNA	Homo sapiens inwardly-rectifying potassium channel Kir2.1 (KCNJ2) gene, exon 2 and complete cds	Homo sapiens inward/v.recifiting nofeseiiim chanal kiro kirokii
igle Exon Pro	Top Hit Database Source		LZ .	Ł.	Į.	Ė	LN.	LN-	LZ Z	Z	Į.	Z	Į.	Z			LN L	N			LICIMAN		\neg	FOT LIMEN	7	7					Z	
Sir	Top Hit Acession No.	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	00 0 744400	0.0E±00 AF111163.1	AF 111103.1	N 526509	0.0E+00 AF208161.1	AF152337.1	5454175 NT	0/#5064	4505016 NT	N Sensor	4502556		7662091 NT	2091	00 AF 143314.1	0.0E+00 AJ245418.1	0 0E+00 A 104E448 4		0.0E+00 - 7857440 NIT	0.0E+00 AI 163284.2	ı		l	1	T	7007	4557887 NT	AE460040 4	T	AF153819.1
	Most Similar (Top) Hit BLAST E Value	00,00	0.05+00	0.05+00	0.05	0.05	0.0=+00	0.05+00	0.05+00	20.00	0.05+00	00.100	0.0E+00	200	00+100	0.00+000	0.05+00	0.0E+00/		0 0F+00	0.0E+00	0.0E+00	0.0F+00 H92741 1	0.0E+00 H92741 1	0.0F+00 AF184110 4	0.0E+00 Al 163300 2	0.0F+00 AB037524 4	0.0F+00	0.0E +00		_	0.0E+00 A
	Expression Signal	1 26	29.00	8 8	258	8.48	0.10	100	15.47	, c	1.61	203	2.38	12.70	40.70	21.2	0.30	10.33	10.33	1.68	1.46	3.16	1.04	1.04	2.8	4.94	1.66	1.53	1.53	1.52	7	1.52
	ORF SEQ ID NO:	29858	29859	29860	29870	29875	29882	29886	29894	2890	29903	29908		29910	29911	20025		29928	29929			_	29947	29948	29949	29950		29958	29959	29960		28961
	Exon SEQ ID NO:	17229	L	L		L	1	ı	1	17267	1	17275	17279	17281	17281	17298		17301	17301	17316	17318	17320	17321	17321	17322	17323	17324	17331	17331	17332		17332
	Probe SEQ ID NO:	4493	4484	4494	4502	4507	4512	4515	4525	4532	4536	4540	4544	4546	4546	4563		4566	4566	4581	4583	4585	4586	4586	4587	4588	4589	4596	4596	4597	-	4597

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Single Exon Probes Expressed in Brain	Top Hit Descriptor	Mus musculus E-cadherin binding protein E7 mRNA, complete cds	Homo sapiens mRNA for KIAA1047 protein, partial cds	Homo sapiens mRNA for KIAA1047 protein, partial cds	Human endogenous retrovirus type K (HERV-K), gag, pol and env genes	zv96b07.s1 Scares_NhHMPu_S1 Homo sepiens cDNA clone IMAGE:7676053'	Homo sapiens truncated tenascin XB (TNXB) gene, partial cds and TNXA gene recombination breakpoint	region	Homo sablens chromosome 21 segment i 1521 cut 8	Homo sapiens chromosome 21 segment HS21C078	Homo sapiens mRNA for KIAA1399 protein, partial cds	Homo sapiens mRNA for KIAA1399 protein, partial cds	Human displacement protein (CCAAT) mRNA	Homo saplens butyrophilin, subfamily 2, member A2 (BTN2A2), mRNA	Homo sapiens butyrophilin, subfamily 2, member A2 (BTN2A2), mRNA	ya83g04,r2 Stratagene fetal spleen (#937205) Homo sapiens cDNA clone IMAGE:68310 5'	ya83g04.r2 Stratagene fetal spleen (#937205) Homo sapiens cDNA clone IMAGE:68310 5'	601158935F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3505521 5'	Mus musculus neurexophilin 1 (Nxph1) gene, large exon and 3' end of the Intron, and partial cds	Human AHNAK nucleoprotein mRNA, 5' end	Human haptoglobin and haptoglobin-related protein (HP and HPR) genes, complete cds	Human haptoglobin and haptoglobin-related protein (HP and HPR) genes, complete cds	Homo sapiens cyclophilin-related protein (NKTR) gene, complete cds	Homo sapiens KIAA0563 gene product (KIAA0563), mRNA	Human proto-oncogene tyrosine-protein kinase (ABL) gene, exon 1a and exons 2-10, complete cds	SCN1A=brain type I sodium channel alpha-subunit {IIIS5 transmembrane region} [human, placenta, Genomic,	1556 ntj	SCN1A=brain type I sodium channel alphe-subunit {IIIS5 transmembrane region} [human, placenta, Genomic,	1556 nt	Human CYP2D7AP pseudogene for cytochrome P450 2D6	Homo sapiens bromodomain adjacent to zinc finger domain, 2B (BAZ2B), mRNA	Homo sapiens bromodomain adjacent to zinc finger domain, 2B (BAZ2B), mRNA	Homo saplens alpha-3 type IX collagen (COL9A3) gene, promoter region, and exons 1-26	Homo sapiens proteinxuud (ALU13), mRNA
le Exon Pro	Top Hit Database Source	NT	TN	NT	LN	EST_HUMAN		Z	Z	Į.	NT	TN	LN	LN		EST_HUMAN	EST_HUMAN	EST_HUMAN	NT	NT	TN	LN	L L	LZ L	LN		NT	!	Ł	Ę	NT	L'N	L	Z
Sing	Top Hit Acession No.	0.0E+00 AF167441.1				0.0E+00 AA418246.1		+00 AF086641.1			-00 AB037820.1	0.0E+00 AB037820.1	-00 M74099.1	6453812 NT	6453812 NT			1.1	J56651.1	-00 M80902.1	-00 M69197.1	M69197.1	+00 AF184110.1	7662181 NT	-00 U07563.1		H00 S71446.1		-00 S71446.1		7304922 NT	7304922 NT	+00 AF026801.1	7019320 NT
	Most Similar (Top) Hit BLAST E Value	0.0E+00	0.0E+00	0.0E+00	0.0E+00 Y18890.1	0.0E+00		0.0E+00/	0.0E+00	0.0E+00 /	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00 T56945.1	0.0E+00	0.0E+00	0.0E+00 U56651.1	0.0E+00	0.0E+00 t	0.0E+00 M69197.1	0.0E+00	0.0E+00	0.0E+00.0		0.0E+00		0.0E+00	0.0E+00 X58467.1	0.0E+00	0.0E+00	0.0E+00	0.0E+00
	Expression Signal	1.5	1.22	1.22	5.25	1.08		2.27	1.06	1.06	2.72	2.72	2.67	1.84	1.84	0.82	0.82	1.31	1.33	5.87	2.23	2.23	1.9	2.02	0.95		0.97		0.97	1.45	1.05	1.05	1.4	0.84
	ORF SEQ ID NO:	29962	29970	29971	29979	29987			29998		30000	30001	30002	30005	30008	25593	25594		30029	30033	L		30040	30042	30049		30050		30051		30065			30076
	Exan SEQ (D NO:	17333	17340	L	17346	17352	ľ	_L	_1		17365	17365	17366	17370	17370	12950	12950	17373	17394	17399	L	17402	17405	17407	17414		17415	L		17426	17435	17435	1	17444
	Probe SEQ ID NO:	4598	4605	4605	4611	4617		4624	4629	4629	4630	4630	4631	4635	4635	4636	4636	4639	4660	4665	4688	4668	4671	4673	4680		4681		4681	4692	4701	4704	4709	4712

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Top Hit Descriptor	Homo sapiens proteinx0008 (AD013), mRNA	UI.H-Bi3-ajw-c-04-0-UI.s1 NCI_CGAP_Sub5 Homo sapiens cDNA clone IMAGE:2733294 3'	Homo sapiens HSPC024-iso mRNA, complete cds	Human connexin 43 processed pseudogene	Homo sapiens glutathione S-transferase theta 2 (GSTT2) and glutathione S-transferase theta 1 (GSTT1)	genes, complete cds	M.fascicularis mRNA for metalloprotease-like, disintegrin-like protein, IVa	Homo sapiens Williams-Beuren syndrome deletion transcript 9 (WBSCR9) mRNA, complete cas	Mus musculus zinc finger transcription factor Kaiso mKNA, complete cas	Homo sapiens fragile X mental retardation 2 (FMR2) mRNA	Homo sapiens actin, alpha, cardiac muscle (ACTC), mKNA	ZINC FINGER PROTEIN 132	Homo sapiens hypothetical protein FLJ20073 (FLJ20073), mRNA	Homo sapiens KIAA0187 gene product (KIAA0187), mRNA	Human Tcr-C-delta gene, excns 1-4; Tcr-V-delta gene, exons 1-2; T-cell receptor alpha (Tcr-alpha) gene, J1-	J61 segments; and Tcr-C-alpha gene, exons 1-4	Human Tor-C-delta gene, exons 1-4; Tor-V-delta gene, exons 1-2; T-cell receptor alpha (Tor-alpha) gene, J1-	J61 segments; and Tcr-C-alpha gene, exons 1-4	H.sapiens MeCP-2 gene	H.sapiens MeCP-2 gene	Homo sapiens chromosome 21 segment HS21C080	Homo sapiens TATA box binding protein (TBP)-associated factor, RNA polymerase II, I, 28kD (1AFZI)	MRNA	H.sapiens MICA gene	Homo sapiens zinc finger protein (KIAA0412) mRNA	Homo sapiens mRNA for KIAA0633 protein, partial cds	Mus musculus zinc finger protein interacting with K protein 1 (Zik1), mRNA	Homo sapiens meningioma expressed antigen 6 (called-cal proline-rich) (MGEAB), mKNA	Homo saplens desmoplakin (DPI, DPII) (DSP) mRNA	Homo sepiens zho-finger DNA-binding protein (HUMHOXY1), mRNA	Homo sapiens MHC class 1 region	Homo saplens opiold receptor, delta 1 (OPRD1) mRNA	Homo sapiens splice variant AKAP350 mRNA, partial cds	Home sapiens COL4A6 gene for a6(IV) collegen, exon 44 and partial cds	
Top Hit Database Source	LN	EST HUMAN	n.	LN		LN	NT	TN	NT	LN	NT	SWISSPROT	۲N	FZ		LN LN		TN	LN	LN	LN TN		LN	LN	TN	TN	NT	F	FN	IN.	LN	LV	NT	LN-	
Top Hit Acession No.	7019320 NT	AW 444637.1		M65189.1		D AF240786.1	(87205.1	0.0E+00 AF084479.1	\F097416.1	4503766 NT	4885048 NT	52740	TN 08023080	7661979 NT		M94081.1		M94081.1	X94628.1	X94628.1	0.0E+00 AL163280.2		5032150 NT	X92841.1	4585642 NT	00 AB014533.1	6677648 NT	5174560 NT	4758199 NT	7705546 NT	0.0E+00 AF055066.1	4505508 NT	0.0E+00 AF091711.1	Desgas 4	J03:002. 1
Most Similar (Top) Hit BLAST E Value	0 0F+00		0.0E+00	0.0E+00		0.0E+00	0.0E+00 X87205.1	0.0E+00/	0.0E+00	0.0E+00	0.0E+00	0.0E+00 P52740	0.0E+00	0.0E+00		0.0E+00 M94081.1		0.0E+00 M94081.1	0.0E+00 X94628.1	0.0E+00 X94628.1	0.0E+00		0.0E+00	0.0E+00 X92841.1	0.0E+00	0.0E+00	0.0E+			l					
Expression Signal	0 84	1.88	1.82	2.28		2.79	2.02	1.11	1.96	3.01	13.57	1.04	5.7	0.97		1.84		1.84		1.44	2.96		1.17	1.09				0.95							1.07
ORF SEQ ID NO:		30103					30147	L				L		1		30164		30165			L		30176	L	L	L	L	L					1	2000	
Exon SEQ ID NO:	47444	17467	17472	17482		17521	17525	17527	17528	17529	17531	17532	17536	17540		17541		17541	1	L		L	17554	L	1	L	L	L	L	1	L	1	1	1	17587
Probe SEQ ID NO:	274.2	4735	4740	4750		4790	4794	4796	4797	4798	4800	4801	4805	4809		4810		4810	4812	4812	4815		4823	4830	4832	4833	4834	4835	4836	200	200	4 6	4845	Ş	4858

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Table 4

V (01/57275		~		<u> </u>			_	_		_	_	_	_		T -	_	<u> 11 /</u>	Neges 1		144A . V	****	ı	P <u>C</u> 1	<u>r/U</u>	S0	1/(006	67
Single Exon Probes Expressed in Brain	Top Hit Descriptor	Homo sapiens farnesyl diphosphate synthase (farnesyl pyrophosphate synthetase, dimethylallytransfransfarase, nearth the synthase farnesyl synthase (farnesyl pyrophosphate synthetase,	Homo sapiens siafytransferase 8 (alphe-N-acetyineuraminate: alphe-2,8-siafytransferase, GD3 synthase)	Home services mPNA for VIA Access	Homo sapiens mRNA for KIAAAAST name, section and	Homo sapiens DNA, DLEC1 to ORCTL4 gene region, section 1/2 (DLEC1, ORCTL3, ORCTL4 genes,	conjugate cos)	In a Big all 600 of 11 and 100 of 100	Homo sapiens hymbridical action of 14400 History Homo sapiens cDNA clone IMAGE:30686913	Homo sablens headed filement the chief of th	Human ribosomal motein 22 mBNA complete 2.	601303729F1 NIH MCC 21 LDCC 21	Homo sapiens desmanletin (DRI DRIV DED) - File	Homo saciens KIA40952 protein (KIA40652) DANA	Homo sanience m. R. N. de K. L. A. A. K. L. A. A. K. L. A. A. K. L. A. A. K. L. A. A. A. K. L. A. A. A. A. A. A. A. A. A. A. A. A. A.	Homo saplans handheling and a protein, partial cds	Homo satisfies hymothetical protein F 1204/7 (FLUX04/7), mRNA	nor4g09.s1 NCI_CGAP_Pher Home sapiens cDNA clone IMAGE:1100704 3' similar to TR:E239140 E239140, SPAIT PROTEIN:	no14g09.st NOT_CGAP Phet Homo sapiens cDNA clone IMAGE:1100704 3' similar to TR:E239140	no14909.51 NCI_CGAP_Phe1 Homo sapiens cDNA clone IMAGE:1100704 3' elmiler to TE-Ennex An	E239140 SPALT PROTEIN;	Homo sapiens HSPC114 mRNA, complete cds		- 1	nouse mRNA for seizure-related gene product 6. Shares domains with		3	Mus musculus mRNA for according short spliced variant (acz gene)	
jle Exon Pro	Top Hit Database Source			L	L'Z	Ė	12	EST HIMAN	-1	-	Į	EST HUMAN	٦.		N _T			EST HUMAN	H TST	Carrie	EST_HUMAN		7						
Sind	Top Hit Acession No.	4503684 NT	4508952 NT	0.0E+00 AB006625.1					2926	4502398 NT	4967.1	408863.1	4758199 NT	7662401 NT	0.0E+00 AB028966.1	3441	8923441 NT				1246.1	1463.1	31463.1	195658.1 NT	.050253.1 NT	18705.1			3.2
	Most Similar (Top) Hit BLAST E Value	0.0E+00	0.0E+00	0.0E+00/	0.0E+00 /	0.0E+00/	0.0E+00 A	0.0E+00	0.0E+00	0.0E+00	0.0E+00 U1	0.0E+00 BE	0.0E+00	0.0E+00	0.0E+00 A	0.0E+00	0.0E+00	0.0E+00 AA601246.1	0.0E+00 AA601246 1	0	0.0E+00 AB601246.1	0.0E-00 AF 10	0.0E+00 A	0.0E+00 AF1	0.0E+00 AL050253.1	0.0E+00 AF0	0.0E+00 Y19186.1	0.0E+00 Y19186.1	0.0E+00 AL163209.2
	Expression Signal	1.68	1.03	3.09	3.09	0.95	1.45	1.02	1.61	1.09	4.69	2.95	3.18	1.15	1.01	2.34	2.34	0.81	0.81	ğ	4.0.0	- 7		0.71	0.84	1.63	1.5	1.5	1.26
	ORF SEQ ID NO:	30212	29852		30225	30232	30243	30248	30251	30255			30268	30271	30274	30283	30284	30291	30292	30203	30295	30208	30280	1,000.7		30312	30313	30314	
	Exon SEQ ID NO:	17589		17602	_ [i		_	- 1	17656	1,861	17666	17674	17674	17683	17683	17883	17886	17888	130	8	17699	17708	17709	17709	17717
	Probe SEQ ID NO:	4860	4865	4875	4875	4885	4899	4906	4909	4812	4915	4924	4928	4933	4938	4947	4947	4958	4958	4958	1984	4981	4073	2	4976	4985	4986	4986	4994

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O	01/57275	i —	7	7	7	Z T	7	7	7	7	T	_	Т	_	T	_	_	1	т-	_	_	 	11	<u> </u>	\ 	4.	71	P(CT.	/U	S 0	1/	000	667	7 ភពភ
	Top Hit Descriptor		Homo sapiens gammma-cytoplasmic actin (ACTGP3) pseudogene	zn03g10.r1 Stratagene hNT neuron (#937233) Homo sapiens cDNA clone IMAGE 548402 F	2103g10.r1 Stratagene hNT neuron (#937233) Homo saplens cDNA clone IMAGE:546402 5	Homo sapiens titin (TTN) mRNA	Homo sapiens titin (TTN) mRNA	Bacillus amyloliquefaciens sacB gene for levansucrase (EC 2.4.1.10)	Homo sapiens vascular endothelial cadherin 2 mRNA, complete cds	Homo sapiens vascular endothelial cadherin 2 mRNA, complete cds	Homo saniens controls viral integration site 24 (EVI2A), mRNA	Homo sapiens chemical integration site 24 (EVI24), mRNA	Homo sapiens DEFIELD Description of the Party of the Part	Home smaller DB J	Home series and the Containing 1, with ZNF domain (PRDM1) mRNA	Home capitals putative GFR3/ gene, exon 2	Human address purative GPR37 gene, exon 2	Home control of the C	Home capitals potassium inwardity-rectifying channel, subfamily J, member 16 (KCNJ16), mRNA	Homo sapiens 450 links chair (1 Octavia) and Sapiens 450 links chair (1 Octavia) and Homo sapiens 450 links chair (1 Octavia)	Homo saniens 4E2 links a Line (1005) BTNA	Home contact of a right chall LOCO1997), MKNA	Home September of the Cancer chromosome region candidate 1 (DBCCR1), mRNA	Mis miscrific above to KIAA0559 protein, partial cds	Rattus norvegicus multidomain presynaptic cytomatrix protein Piccolo mRNA, complete ode iona enica	Variant Refus novembre multiplements	variant	Homo Sapiens foll-like recentor 7 /TTI DZI DNIA	Homo sanlens microthikula associated and the complete cds	Home seniors all the second season area of the P2) mRNA	Homo saniene all tramets acceptor, innotropic, N-methyl D-aspartate 2A (GRINZA) mRNA	EST367840 MACE (GRINZA) Induciple, N-methyl D-aspartate 2A (GRINZA) mRNA	Home selection and the sequences, MAGD Home sapiens abnA	Homo sapiens nabahri rocantes and protein, partial cds	de de la compresa del compresa de la compresa del compresa de la compresa del compresa de la compresa de la compresa de la compresa del compresa de la compresa della compresa della compresa della compresa della compresa della compresa della compresa della compresa della compresa della compresa della compresa della compresa della compresa della compr
	Top Hit Database Source		FZ	EST_HUMAN	EST HUMAN	Z	۱.	EZ EZ	2 12	- LV	FZ	Į	LZ.	Ę	FZ.	Į.	Į.	1					1	Į.			E					HIMAN			
	Top Hit Acession No.	, 2000	150657.1	0.0E+00 AA084272.1	1242	IN 027/004	4507720	988.1 40635.4	40635 1	7657074	7657074	63281.2	ş			T		8923822	8923822 NT	7706245 NT	7706245 NT	7657008 NT	113		,	T	227534.1 NT	245702.1 NT	4505096 NT	6006002 NT	l	5819.1	T	179.1	
	Most Similar (Top) Hit BLAST E Value	220020	0.05+00	0.0E+00 A4	00-100	001	0.05+00	0.0E+00	0.0E+00 AF2	0.0E+00	0.0E+00	0.0E+00 AL1	0.0E+00	0.0E+00	0.0E+00 Y12477.1	0.0E+00 Y12477 1	0.0E+00 Y08032.1	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00 ABO	0.0E+00 D49802.1	0.0F+00 AE227534 4	-	0.0E+00 AF227534.1	0.0E+00 AF24	0.0E+00	0.0E+00	0.0E+00	0.0E+00 AW9	0.0E+00 AB040946.1	0.0E+00 AJ010	
	Expression Signal	28.03	20.03	1000	0.95	0.95	600	, 6.	1.04	1.55	1.55	1.11	14.05	1.03	2.75	2.75	1.07	1.01	1.01	0.76	0.76	2.69	2.05	1.23	1.14		1.88	0.99	6.53	1.5	1.5	1.6	1.31	1.12	
	ORF SEQ ID NO:	1	30326	30327	29553	29554	30359	30375	30376	30380	30381	30387	30388	30389	30391	30392	30394	30414	30415	30417	30418	30423	30433	30444	30445		30446	30447	30449	30450	30451	30452			
	SEQ ID NO:	17720	17724	17724	L	16924	17747	1 1		17764	17764	17768	17769	17771	17775	17775	17771	17798	17798	17800	1,800	17807	17816	17827	17828	1	679/1	30/	1/833	17834	17834	17835	17837	17844	
_	Probe SEQ ID NO:	4997	5001	5001	5012	5012	5026	5042	5042	5045	5045	2049	င် ကို	2022	900	2028	5058	20 20 20 20 20 20 20 20 20 20 20 20 20 2	80 20	5081	188	888	2097	5109	5110	777	2 42	1		- 1	5116		- 1	9126	

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H. sepiens immunoglobulin heavy chain gene, variable region 7110c08.x1 NCI_CGAP_CLL1 Home sepiens cDNA clone IMAGE:3294250 3' ht99a02.x1 NCI_CGAP_Lu24 Home sepiens cDNA clone IMAGE:3165194 3' similar to SW:Y054_HUMAN rd04a04.x1 Soares_placenta_8to9weeks_2NbHP8to9W Homo sapiens cDNA clone IMAGE:1722702.3' similar to SW:72D3_DROME P49849 TRANSCRIPTION INITIATION FACTOR TFIID 85 KD SUBUNIT Homo sapiens aconitase (ACO2) gene, nuclear gene encoding mitochondrial protein, exon 15 Homo sapiens polycystic kidney disease-like 2 protein (PKDL2) mRNA, complete cds Homo sapiens polycystic kidney disease-like 2 protein (PKDL2) mRNA, complete cds . complete cds wp08g08.x1 NCI_CGAP_Kid12 Homo sapiens cDNA clone IMAGE:2464094 3* Homo sapiens protocadherin alpha 13 (PCDHA13), mRNA 602071372F1 NCI_CGAP_Bm64 Homo sapiens cDNA clone IMAGE:4214272 5 602071372F1 NCI_CGAP_Bm64 Homo sapiens cDNA clone IMAGE:4214272 5 Homo sepiens Sp4 transcription factor (SP4), mRNA 602118928F1 NIH_MGC_56 Homo sepiens cDNA clone IMAGE:4276254 5' AU134406 OVARC1 Homo sepiens cDNA clone OVARC1001894 5' 601589422F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3943804 5' | 601589422F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3943804 5' 601105891F1 NIH_MGC_15 Homo sapiens cDNA clone IMAGE:2988310 5 801061489F1 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:3447839 AU134406 OVARC1 Hamo sepiens cDNA clane OVARC1001894 5 Homo sapiens mRNA for Nucleosome Assembly Protein 1-like 2, Top Hit Descriptor Homo sapiens mRNA for neurexin I-alpha protein, complete cds RC3-GN0076-310800-013-b03 GN0076 Homo sepiens cDNA H.sapiens immunoglobulin heavy chain gene, variable region Homo sapiens mRNA for KIAA1117 protein, partial cds Homo sapiens keratin 12 (KRT12) gene, complete cds Homo sapiens keratin 12 (KRT12) gene, complete cds Homo sapiens eosinophil peroxidase (EPP) gene, exon 7 Homo sapiens ring finger protein 15 (RNF15), mRNA Homo sapiens Bloom syndrome (BLM) mRNA Homo sapiens mRNA for KIAA0466 protein, partial cds P42694 HYPOTHETICAL PROTEIN KIAA0054. Single Exon Probes Expressed in Brain Human sodium channel mRN Top Hit Database HUMAN HUMAN EST_HUMAN ST HUMAN 328.1 EST HUMAN 128.1 EST HUMAN 4557384 NT Source EST_HUMAN EST HUMAN EST HUMAN EST HUMAN EST_HUMAN EST_HUMAN EST HUMAN EST_HUMAN ES 눌 Top Hit Acession 5454013 9256579 0.0E+00 AB035356.1 0.0E+00 AB029040.1 AF137286.1 0.0E+00 AF093093.1 0.0E+00 AF137286.1 0.0E+00 BE931080.1 0.0E+00 BE794412.1 0.0E+00 BE794412.1 0.0E+00 BF665962.1 0.0E+00 AU134406.1 0.0E+00 AU134406.1 0.0E+00 BE538857.1 0.0E+00 AI934954.1 BE675498.1 AF182034.1 AF182034.1 0.0E+00 BE220753.1 AB007935.1 0.0E+00 AI189142.1 0.0E+00 M29908.1 0.0E+00 M91803. 0.0E+00 BF526328.1 X56163.1 X56163.1 0.0E+00 0.0E+00 0.0E+00/ 0.0E+00/ (Top) Hit BLAST E 0.0E+00 Most Simila 0.0E+00 0.0E+00 0.0E+00 1.08 2.52 1.8 1.8 1.8 1.8 Expression 3.8 1.66 4.68 0.81 7.18 Signal 9.9 ORF SEQ ID NO: 30473 30477 30481 30484 30496 30643 30644 30764 30766 30799 30826 30792 30831 30832 SEQ ID NO: 18000 18003 18105 18017 18106 18021 18027 18104 18107 18106 18111 25066 18132 18133 18133 18138 18151 18151 Probe SEQ ID 5139 5154 5162 5172 5172 5195 5192 5151 5209 5213 5213 5220 5301 5302 ë 522 5319 5328 5330 5330 5335 5348 5344 5348 5367 5370

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Page 507 of 536 Table 4 Single Exon Probes Expressed in

1			П	П		П	П	П	ဌ	2	7			П	\neg							٦	٦	٦	٦							٦	"إ"
Single Exon Probes Expressed in Brain	Top Hit Descriptor	Homo sapiens mRNA for KIAA0466 protein, partial cds	Homo sapiens ciliary dynein heavy chain 9 (DNAH9) mRNA, complete cds	Homo saplens ciliary dynein heavy chain 9 (DNAH9) mRNA, complete cds	Human gene for dihydrolipoamide succinyltransferase, complete cds (exon 1-15)	Human gene for dihydrolipoamide succinyliransferase, complete cds (exon 1-15)	Homo saplens offactory receptor, family 2, subfamily F, member 1 (OR2F1), mRNA	H.sapiens mRNA for myosin	HUM418D05B Clontech human fetal brain polyA+ mRNA (#6535) Homo sapiens cDNA clone GEN-418D05 6*	HUM418D05B Gontech human fetal brain polyA+ mRNA (#6535) Homo saplens cDNA clone GEN-418D05	2	602042322F1 NC _CGAP_Bm67 Homo sapiens cDNA clone IMAGE:4179988 5	602042322F1 NCI_CGAP_Bm67 Homo sapiens cDNA clone IMAGE:4178988 5'	601897658F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4126815 5	Homo sapiens calcium channel, voltage-dependent, alpha 1G subunit (CACNA1G), mRNA	601150252F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3502909 5'	MR0-SN0037-030400-001-h07 SN0037 Homo sapiens cDNA	601105291F1 NIH_MGC_15 Homo saplens cDNA clone IMAGE:2987903 51	601105291F1 NIH_MGC_15 Homo sapiens cDNA clone IMAGE:2987903 5'	Homo sapiens olfactory receptor, family 2, subfamily F, member 1 (OR2F1), mRNA	Homo sapiens oifactory receptor, family 2, subfamily F, member 1 (OR2F1), mRNA	Homo sapiens very long-chain acyl-CoA synthetase homolog 1 mRNA, complete cds	Homo sapiens very long-chain acyl-CoA synthetase homolog 1 mRNA, complete cds	Homo sapiens Surf-5 and Surf-6 genes	Homo sapiens Surf-5 and Surf-6 genes	qf94g10.x1 Soares_placenta_8to9weeks_2NbHP8to9W Homo sapiens cDNA clone IMAGE:1757730 3' similar to SW:CADC_HUMAN P55289 BRAIN-CADHERIN PRECURSOR;	EST02238 Fetal brain, Stratagene (cat#936206) Homo sapiens cDNA clone HFBCM48	UI-HF-BL0-adh-d-02-0-UI.r1 NIH_MGC_37 Homo sapiens cDNA clone IMAGE:3061658 5'	H.sapiens isoform 1 gene for L-type calcium channel, exon 14 adnd 15	PM3-CT0263-091299-007-h05 CT0263 Homo sapiens cDNA	PM3-CT0263-091299-007-h05 CT0263 Homo saplens cDNA	PM3-CT0263-091289-007-h05 CT0263 Homo sapiens cDNA	Human beta-prime-adaptin (BAM22) gene, exon 13
le Exon Pro	Top Hit Database Source	NT.	TN	N	NT	NT.	ΤN	TN	EST HUMAN		EST HUMAN	EST_HUMAN	EST HUMAN	EST_HUMAN	NT	EST_HUMAN	EST_HUMAN	EST HUMAN	EST_HUMAN	N	NT	M	M	NT	NT	EST HUMAN	EST_HUMAN	EST_HUMAN	TN	EST_HUMAN	EST_HUMAN	EST_HUMAN	ĮŅ.
Sing	Top Hit Acession No.	0.0E+00 AB007935.1					11420819 NT		D61564.1						4392			0.0E+00 BE292889.1	3E292889.1	0.0E+00 11420819 NT	20819			0.0E+00 AJ224639.1	00 AJ224639.1	00 Al198515.1	M85719.1	0.0E+00 AW 405472.1	Z26269.1	AW361877.1	0.0E+00 AW361877.1	0.0E+00 AW361877.1	00 U36261.1
	Most Similar (Top) Hit BLAST E Value	0.0E+00	0.0E+00	0.0E+00	0.0E+00 D26535.1	0.0E+00 D26535.1	0.0E+00	0.0E+00 Z38133.1	0.0E+00 D61564.1		0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00 M85719.1	0.0E+00	0.0E+00 Z26269.1	0.0E+00	0.0E+00	0.0E+00	0.0E+00
	Expression Signal	0.91	4.85	4.85	1.06	1.08	1.88	0.81	0.78		0.78	2.55	2.55	2.92	4.37	1.15	3.51	2.33	2.33	1.51	1.51	4.35	4.35	2.95	2.95	0.61	6.98	4.83	1.25	1.94	1.94	1.94	2.55
	ORF SEQ ID NO:	30859	30863	30864	30878	30879	30906	30912	30936		30937	30941	30942	30946	31132		-	31196	31197	l			31229	31239	31240	31271	31277		31296	31306			31315
i	Exon SEQ ID NO:	18171		L		18187	18201		18225	1				_	L	18276	18285	18298	18298	i_	\square	Ш			18333	18363	L.	١_		18396	L	1 1	18401
	Probe SEQ ID NO:	5370	5374	5374	5387	5387	5401	5407	5426		5426	5429	5429	6434	5445	5477	5486	9290	9200	5521	5521	5528	5528	5535	5535	5568	5570	5577	6590	5601	5601	5601	5095
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Page 508 of 536 Table 4 Single Exon Probes Expressed in Brain

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	Top Hit Descriptor	Homo saplens mRNA for KIAA1641 protein, partial cds	Homo canjans KW OT1 nene	Learner and Market State Communication Commu	Homos appears XVLX.1 II. 1981 Per Series CONA	HAZ981 Human Tetal Ilver GUNA Illaria y numo septema Coron	Homo sapiens protocadherin beta 2 (PCDHBZ), mrtnA	601584032F1 NIH_MGC_7 Homo saplens cDNA clone IMAGE: 3838501 5	Homo sapiens amiloride-sensitive cation channel 1, neuronal (degenerin) (Accivit), minus	601345141F1 NIH_MGC_8 Homo saplens cDNA clone IMAGE:3677843 3	Mus musculus aczonin (Acz), mRNA	Human L-type calcium channel beta-1 subunit (CACNLB1) gene, exon 135 and isgrorm bera-15, compress	cds	Human L-type calcium channel beta-1 subunit (CACNLB1) gene, exon 13b and 13b unit beta-15, confront	ods	602036272F1 NCI_CGAP_Brn64 Homo sapiens cDINA done inwade. 4104321 3	Homo saplens calclum channel gamma 5 subunit (CACNGS) gene, expr. 4 and complete cas	601104462F1 NIH MGC_14 Homo sapiens CLINA cione INVACE 3047 450 3	hz83d11.x1 NCI CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3214561 3' similar to TK: U62084 U62064	PHOSPHOLIPASE C NEIGHBORING;	602185652F1 NIH MGC 45 Hamo sapiens culva digita invascina sapiens	209006.s1 Soares NhHMPu S1 Homo sapiens CDNA clone IMACE: 01 1003 3	Homo saplens cadherin 20 (CDH20) mKNA, complete cas	RCS-ET0027-210600-022-G10 E 10027 Homo sapletts GLIVAC-0000462 E	601645287F1 NIH MGC 56 Homo sapiens cipina cigne ilivia de cogresso de la linga de la ling	7d72e11.x1 NCI_CGAP_Lu24 Homo saplens cDNA clone IMAGE.3219040.5 Silling to CW.2CAXI_101 Ps1843 ORPHAN NUCLEAR RECEPTOR DAX-1. [1]:	7472e11.x1 NCI CGAP_Lu24 Homo sapiens cDNA done IMAGE:3278540 3' similar to SW:DAX1_HUMAN	P51843 ORPHAN NUCLEAR RECEPTOR DAX-1. [1];	AD66F03.X1 NCI_CGAP_OV39 Homo saplens cDNA clone IMAGE:X/43249.3 Similar to IN.T 6533.7 7 553	GUANYLATE KINASE ASSOCIATED TROTTERS:	601088000F INIT VICE GO THING SEPTIME SOFT STATES THAT SEPTIMES SOFT SEP	601558060FT NIT MIGG 30 FIGURE September CONTRACTOR STATES 3' similar to TR 0921N3	has 4dobs x1 NCI CGAP. Kid1z home saptens curva cigne into c. zeroces o cinnar con care of control con	CAVA-H UBBA-28809-288-4 TO 1 1 0 0 0 4 TO 1 1 0 0 0 4 TO 1 1 0 0 0 0 1 TO 1 TO 1 TO 1 TO 1 TO	
	Top Hit Database Source	LZ.	į.	2	Ł	EST_HUMAN	i. '	EST_HUMAN	LN.	EST_HUMAN	N		TN		ᄓ	EST_HUMAN	LN	EST HUMAN		EST_HUMAN	EST HUMAN	EST_HUMAN	NT	EST_HUMAN	EST_HUMAN	FST HUMAN		EST_HUMAN		EST HUMAN	EST HOMAN	EST HUMAN	EST_HUMAN	EST HUMAN	
	Top Hit Acession No.	146961 1	, , ,				11416801 NT	79117	FN 898843 NT	0.0E+00 BE560082.1	10048478 NT		186961.1		J86961.1	0.0E+00 BF338835.1	0.0E+00 AF142621.1	3E273983.1		0.0E+00 BE503096.1	0.0E+00 BF569905.1	0.0E+00 AA454642.1	0.0E+00 AF217289.1	BE828144.1	BE958636.1	0 0E+00 BF673986 1		BE673986.1		0.0E+00 AW276760.1	BF031742.1	0.0E+00 BF031742.1	0.0E+00 AW470846.1	0.0E+00 BF155670.1	
	Most Similar (Top) Hit BLAST E Value	A DETOU	0.05.00	0.0E+00 AJ	0.0E+00 ₽	0.0E+00 AI207616.1	0.0E+00	0.0E+00 BE	0.0E+00	0.0E+00	0.0E+00		0.0E+00 U86961.1		0.0E+00 U86961.1	0.0E+00	0.0E+00	0.0E+00		0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	<u> </u>		0.0E+00 BE							
	Expression Signal	100	3	1.58	1.56	1.19	5.23	1.21	1.13	6.59	1.67		4.05		4.05	2.28	1.03	3.06	200	0.88		1.21						0.55		1.14	1.16	1.16		0.77	
+	ORF SEQ ID NO:	1	31344	31404	31405	31416	31430	31433	31444	31445	L		31447	L	31448	1	1			31486					31535		31992	31553		31559	31571	31572			
	SEQ ID NO:		18431	18485	18485	18493	18509	18514	18523	18524	18525	2	18526		18526	1	1.	ı	١	18559		L	L	L	1_		1862	18620		18625	1	1_	1		
1	Probe SEQ ID NO:		5636	5691	5691	5699	5717	5772	1 20	573	27.22	3	5734		5734	5752	5756	200	200	£768	5773	5778	2 2	7873	2 87		28	583		5836	5847	5847	5859	5872	

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wo	01/57275		Т	Т	7	·	T	Т-	_	_	Τ-	_	_	<u> </u>				_		<u> </u>	<u> </u>	1		,	P	C]	[/[JS	01/	00667
Single Exon Probes Expressed in Brain	Top Hit Descriptor	ONLY LITTORY BOXAGE	4 V 4 T I USS 4 290900-399-a10 H T0894 Homo sapiens cDNA	Accorded: 1 Soares_parathyroid_tumor_NbHPA Homo sapiens cDNA clone IMAGE:321755 5	zcushub.r1 Scares_paraffyroid_tumor_NbHPA Homo sapiens cDNA clone IMAGE:32/755 5	Rona sapiens familial mental retardation protein 2 (FIMR2) gene, exon 14	ANTISOSTISTI NIH MGC 21 Homo saplens cDNA clone IMAGE:3505323 5'	US 31 ESSUE I NIH, MGC, 71 Hamo saplens cDNA clone IMAGE:3914238 5'	Home seniors VIA Anna	Home capiens NAAU/35 gene product, synaptic vesicle protein 2B homolog (KIAA0735), mRNA	ANARYTYREE NILL MOO AT BEING WORLD Westelle protein 2B homolog (KIAA0735), mRNA	SOURCE WINDER OF THE WASTERN STATE HOURS STATE WASTERN WINDER OF THE WASTERN WINDER OF THE WASTERN WINDER OF THE WASTERN WINDER OF THE WASTERN WINDER OF THE WASTERN WINDER OF THE WASTERN WINDER OF THE WASTERN WINDER OF THE WASTERN	RATETATE NILL AND CALL HOME SEPENS CUNA Clone IMAGE:3960200 6'	Lower 1997 1997 1997 1997 1997 1997 1997 199	Train Septens potassium voltage-gatted channel, Shel-related subfamily, member 2 (KCND2), mRNA 2490h01.r1 Soarce, NHHMPu_S1 Homo sapiens cDNA clone IMAGE:665905 6' similar to	247.1705_HOMAN P42684 HYPOTHETICAL MYELOID CELL LINE PROTEIN 5.; 240h01.11 Soares_NhHMPU_S1 Homo sapiens cDNA clone IMAGE:865905 5' similar to	SWITY 05 HUMAN P42694 HYPOTHETICAL MYELOID CELL LINE PROTEIN 5.	numan I cell surface glycoprotein CD-6 mRNA, complete cds	Ford 44 society in the surface glycoprotein CD-6 mRNA, complete cds	ON UTASSO ASSOCIATION SAPIENS CONA Clone IMAGE:3355565 5	Himes according	601236276F1 NIH MGC 44 Long and 1	AU137772 PLACE1 Home seniors chain along the ROSTAGE 3608490 5	Human G protein-coupled recentor GPR-0-6 mms 20011111111111111111111111111111111111	2981403.r1 Stratagene hNT neuron (#937233) Homo sapiens cDNA clone IMAGE:648005 Ff similar to	IN: 0804195 G864195 LEUKOCYTE SURFACE PROTEIN ;	nomo sapiens xylosyltransferase II (XT2), mRNA	nomo sapiens xylosyltransferase II (XT2), mRNA	Floring sapiens carcinoembryonic antigen-related cell adhesion molecule 8 (CEACAM8), mRNA	transcart i Nit_MGC_16 Homo sapiens cDNA clone IMAGE:3350822 5' tt91f10.x1 NCI_CGAP_Pr28 Homo sapiens cDNA clone IMAGE:2248639 3' similar to TR:014839 Q14839 MI-2 PROTEIN.;
igle Exon Pro	Top Hit Database Source	FOT WINAM		EST TOWAN	NT TOWAR	TO THE PARKET	EST HIMANI		LN	IN.	FST HIMAN		EST HIMAN		FOR TANK	NICH TO THE PARTY OF THE PARTY	THE TOWNER		FOT LIMAN	EST HIMAN	LN LN	EST HUMAN	Т	Т		NAMOL			T HI IMAN	
iS	Top Hit Acessian No.	BF155670 1	0.0E+00 W33069 1	W33069.1	0.0E+00 AF012618 1	0.0E+00 BE2801971	BE889610.1	AW752848.1	11433071 NT	11433071 NT	0.0E+00 BE901608.1		0.0E+00 BE901608.1	TN 9898878	0.0E+00 AA193506 1	03506 4			-	56561.1	107.1		-		4740 4	11545013	11545019 NIT	11070815 NT	7173.1	
	Most Similar (Top) Hit BLAST E Value	0.0E+00	0.0E+00	0.0F+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00 AW	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0 OF+001 A A 4	0.0F+00 1134825 4	0.0E+00 U34625 1	0.0E+00 B	0.0E+00 BE1	0.0E+00 M38107.1	0.0E+00 BE3	0.0E+00 AU137772.	0.0E+00 U	0.0E+00 4420	0.0E+00	0.0E+00	0 OF+00	0.0E+00 BE25	0.0E+00 AI686048.1
	Expression Signal	0.77	3.22	3.22	2.51	3.33	2.6	0.6	1.1	1.1	0.88	0.88	0.88	10.66	1.2	12	18.77	16.77	0.99	1.2	0.85	1.32	1.39	3.76	4.52	3.97	3.97	1.14	2.87	0.85
	ORF SEQ ID NO:	31600	31604	31605		31609	31620	31639	31641	31642	31643	31644	31645	31661	31664	31665	31689	31690	31732	31740	31750	31781	31787	31809	31839	31840	31841	31875	31880	
	_ <u>o</u>			18664			_ [- 1	- 1	_	- 1	- 1	18693	25081	18710	18710	18730	18730	18768	18778	18788	18820	0799	25040	18872	18873	18873	18907	18911	18924
	Probe SEQ ID NO:	5872	5878	5878	5879	5882	2890	2906	2908	2008	999	888	6080	5923	5926	5926	5948	5948	2887	2997	600	8040	9 8	8	6094	9609	6095	6129	6133	6147

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0 (01/57	7275	; 			_				_																	P	·C	T/1	US	01.	/00c
		Top Hit Descriptor		Human anion exchanger (AE1) gene, exons 1-20	601587971F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE 3042320 E1	601587971F1 NIH_MGC_7 Homo saplens cDNA clone IMAGE-3042226 5	460b11.x1 NCI_CGAP_Brn25 Homo saplens cDNA clone IMAGE:1859901 3' similar to TR:012838 012838	qi50b11.XI NCI_CGAP_Brinz6 Homo sapiens cDNA clone IMAGE-1850004-3" TB-0.0000	TFIIIC ALPHA SUBUNIT;	MR0-HT0923-220800-102-b05 HT0923 Homo sapiens cDNA	Homo sapiens peptide transporter 3 (LOC51296), mRNA	Human mKNA for alpha mannosidase II isozyme, complete cds	7e02c12x1 NOL-CGAP_Lu24 Homo sapiens cDNA clone INAGE:3281302 9. circling to CMASSES.	Q14681 HYPOTHETICAL PROTEIN KIAA0176;	Homo sapiens KIAA0285 gene product (KIAA0285), mRNA	AV650020 GLC Homo septens cDNA clone GLCCAD09 3'	UI-HF-BL0-acc-g-12-0-UI.s1 NIH_MGC_37 Homo saplens cDNA done IMAGE:3058751 3	M2/ bd3.f1 Soares placenta Nb2HP Homo saplens cDNA clone IMAGE:149933 5'	numer gene for the light and heavy chains of myeloperoxidase	tea 14807.17 Soares_NHMMPu_S1 Homo sapiens cDNA clone IMAGE:813252 5' TES7408.x1 NCI_CGAP_Ov35 Homo sapiens cDNA clone IMAGE:22928873' similar to sw. NTCS_ULARAN	POSTOR SODIUM- AND CHLORIDE-DEPENDENT CREATINE TRANSPORTER 2:	W.1303393F1 NIH_MGC_39 Home saplens cDNA clone IMAGE:3639616 5'	WI SUSSISTINIA MGC 39 Hamo saplens cDNA clone IMAGE:3639816 5'	Mrd-B10264-221199-002-111 BT0264 Homo sapiens cDNA	wind-B10264-221199-002-f11 BT0264 Homo sapiens cDNA	riorno sapiens Achaete-Scute homologue 2 (ASCL2) gene, complete cds			139 5'			
	Top Hit	Source		L	EST_HUMAN	EST HUMAN	EST HUMAN		EST HUMAN	EST HUMAN	Z	EST CHANN	NIMOL TO	EST HOMAN	1 1 1 1 1 1	T	EST HUMAN	T	TO TRACE		EST LIMAN	Т	Ţ	T	NEWINE	7 (4) 11 60 61	1	NAME	Newpor	1	T	HUMAN
	Top Hit Acession	o Z	, 600.0	.35930.1	3E/9/385.1	DE / 9/385.1	41198025.1	1400005-4		2000	55640 4	W178142 1		2020	2		5	T	T		T	T	T	1	T	110245 1	119245 1	T		T		
Most Similar	(Top) Hit	BLASI E	001100	001100			0.0E+00	0.00		005+00	0.05+00.0	0.0E+00 A	0 05400	0.0	0.0E+00/AV/650020 4	0 0F+00	0.0E+00 H01255 1	0.0E+00.X	0.0E+00 AA456375 4	0.0F±00.41	0.0E+00 BE735989 1	0.0E+00 BE735989 4	0.0E+00 AW748598 1	0.0E+00 AW748598 1	0.0E+00 U77629 1	0.0E+00 A	0.0E+00 At	0.0E+00 RE780453 4	0.0E+00 X92217 4	0.0E+00 A19894R3 4	0.0E+00 BE	0.0E+00 BE293153.1
	Expression	======================================	1 53	5	1 22	1	0.57	0.57	0.85	1.08	0.65	1.03	890	1.33	8.59	3.13	6.26	1.6	0.65	1.3	4.71	4.71	0.86	0.86	9.0	15.59	15.59	0.8	1.12	1.52	6.91	6.91
	ORF SEQ		31897	31903	31904		31919	31920	31921	31931	31939	31961	31978	31983	-	32003	32006	32019	32021	32022	32028	32029	32035	32038		32038	32039	32044	32045	32062	32072	32073
ı	SEQ ID	ö	18928				18947	18947	18949	18957	18966	18982	19002	19006	19020	19028	19031	19042	19044	19045	19051	19051	19055	19055	19056	19058	19058	19062	19063	19076	19088	19088
1	SEQ ID	ö	6151	6159	6159		6170	6170	6172	6180	6189	8207	6228	6232	6246	6254	6257	6269	6271	6272	6278	6278	6282			- 1		_1	₋∣	6304		6317

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Single Exon Probes Expressed in

7k43h05.x1 NCI_CGAP_Ov18 Homo sepiens cDNA clone IMAGE:3478496 3' sImilar to TR:O14553 O14553 Homo sapiens low voltage-activated T-type calcium channel alpha 1G splice variant CavT.1a (CACNA1G) tt31f11x1 NCI_CGAP_GC6 Homo sapiens cDNA clone IMAGE:2242413 3' similar to SW:WNT3_MOUSE 200006.11 Soares_fetal_lung_NbHL19W Homo sapiens cDNA clone IMAGE:302626 5' similar to SW:ZN45_HUMAN Q02366 ZINC FINGER PROTEIN 45; 220e06.r1 Soares_fetal_lung_NbHL19W Homo sapiens cDNA clone IMAGE:302626 5' similar to au96h08 y/ Schneider fetal brain 00004 Homo saplens cDNA clone IMAGE:2784159 5' similar to TR:015390 015390 GT24, [3] TR:043840 TR:043206; au96h08.y1 Schneider fetal brain 00004 Homo sapiens cDNA done IMAGE:2784159 5' similar to Homo sepiens zinc finger homeodomain protein (ATBF1-A) mRNA, complete cds zw52c03.r1 Soares_btal_fetus_Nb2HF8_9w Homo sepiens cDNA clone IMAGE:773668 5° 601685317F1 NIH_MGC_57 Homo sepiens cDNA clone IMAGE:4103693 5° 60V3-BN0047-300800-278-c06 BN0047 Homo sepiens cDNA II-HF-BLO-aco-h-02-0-UI.r1 NIH_MGC_37 Homo sapiens cDNA clone IMAGE:3059931 UI-HF-BL0-aco-h-02-o-UI.r1 NIH_MGC_37 Homo sapiens cDNA clone IMAGE:3059931 Homo sapiens zona pellucida glycoprotein 3A (sperm receptor) (ZP3A), mRNA 601512058F1 NIH_MGC_71 Homo seplens cDNA clone IMAGE;3913311 5' 601512058F1 NIH_MGC_71 Homo seplens cDNA clone IMAGE;3913311 5' 601681150F1 NIH_MGC_9 Homo sapiens cDNA done IMAGE:3951301 5' 601681150F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3951301 5 601589371F1 NIM_MGC_7 Homo sapiens cDNA clone IMAGE:3943504 5'
601587561F1 NIM_MGC_7 Homo sapiens cDNA clone IMAGE:3941847 5'
QV1-GN0065-140800-318-h02 GN0065 Homo sapiens cDNA P17553 WNT-3 PROTO-ONCOGENE PROTEIN PRECURSOR. **Fop Hit Descriptor** Homo sapiens transformation/transcription domain-associated QV1-GN0065-140800-318-h02 GN0065 Homo sapiens cDNA V719444 GLC Homo sapiens cDNA clone GLCEHC06 5 SW:ZN45_HUMAN Q02386 ZINC FINGER PROTEIN 45; TR:015390 015390 GT24. [3] TR:043840 TR:043206 Homo sapiens chromosome 21 segment HS21C004 Homo sapiens chromosome 21 segment HS21C004 Human antigen CD27 gene, exons 1-2 mRNA, complete cds EST_HUMAN EST_HUMAN EST HUMAN EST_HUMAN EST_HUMAN EST HUMAN EST_HUMAN EST_HUMAN EST HUMAN Top Hit Database **EST HUMAN** EST_HUMAN **EST HUMAN** EST_HUMAN EST_HUMAN EST_HUMAN EST_HUMAN Source EST HUMAN EST HUMAN EST HUMAN 눋 Ę AL 163204,2 NT 6005983 NT Top Hit Acession 11420658 AW 406348.1 AW 406348.1 0.0E+00 AW163640.1 0.0E+00 AW 163640.1 AV719444.1 BF057438.1 0.0E+00 AF190860.1 ջ BE898340. BE889813.1 0.0E+00 BE767955.1 0.0E+00 BE767955.1 AL163204.2 0.0E+00 AA434584.1 0.0E+00 W37163.1 0.0E+00 W37163.1 0.0E+00 BF217200.1 0.0E+00|A1638412.1 124493.1 0.0E+00 BE: 0.0E+00/ 0.0E+00/ 0.0E+00/ 0.0E+00 0.0E+00 (Top) Hit BLAST E Value 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 8 1.89 0.79 96.0 0.56 0.97 0.97 0.56 6.95 Expression 1.98 1.98 4.76 1.36 4.12 0.99 Signal ORF SEQ ID NO: 32158 32184 32191 32195 32197 32192 32205 32204 32208 32233 32234 32235 32238 32239 32247 32251 32252 32293 32273 19125 19186 19157 SEQ ID 19198 19208 19208 19212 19272 19258 19247 19286 SEO ID 6388 6418 6355 888 6430 6444 6459 6466 6427 6433 6440 644 6444 6427 6467 6471 6480 6485 6494 6495 6507 6485 6520 Ö

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Table 4
Exon Probes Expressed in B

Single Exon Probes Expressed in Brain	Most Similar Top Hit Acession (Top) Hit Top Hit Acession Signal BLAST E No. Source	1.08 0.0F+00 14434474 NIT H	0.0E+00 BE313075 1 EeT LIMAN	0.0E+00 BE313075 1 FST LIMAN	: 0.0E+00 BF569905 1 FeT LIMAN	0.0E+00 J03069.1 NT	0.0E+00 AF217289 1 NT	+00 AF217289.1 NT	0.0E+00 M38113.1	420775 NT	A/41996	1	0.0E+00 RF256708 4 EST LINAAN	0.0E+00/BE904955 1 FRT LINAN	0.0E+00 AU118478.1 EST HIMAN	+00 BE262941.1 EST HIMAN	-00 Z37976.1	0.0E+00 Z37976.1 NT	0.0E+00 AF257737.1 NT	0.0E+00 AF257737.1	0.0E+00 AF310105.1 NT	0.0E+00 BE762770.1 EST_HUMAN	HUMAN	0.0E+00 L019/8.1	0.0E+00 AW5028621 FEST LIMAN	0.0E+00 At 039581 1 FET HIMAN	00 AL039581 1 FST HI MAN	00 BF306996.1	H	0.0E+00 AL049784.1 NT	0.0E+00 AB026893.1 NT
	milar Hit T E	0.0F+00	0.0E+00 B	0.0E+00 B	0.0E+00 BF	0.0E+00 JO	0.0E+00 AF	0.0E+00 AF	0.0E+00 ME	0.0E+00	0.0E+00/Al		0.0E+00 RF	0.0E+00/BE	0.0E+00 AU	0.0E+00 BE	0.0E+00 Z3	0.0E+00 Z3	0.0E+00 AF	0.0E+00 AF.	0.0E+00 AF	0.0E+00 BE	0.0E+00 BF	0.05+00 [01	0.0E+00 AW	0.0E+00 At 0	0.0E+00 ALC	0.0E+00 BF3	0 0F+0011 144	0.0E+00 AL0	0.0E+00 AB0
	Expression Signal	1.08	9.0	9.0	2.69	2.32	3.52	3.52	1.18	3.2	0.74	0.74	0.78	0.58	1.05	8.08	2.28	2.28	3.26	3.26	1.06	1.03	450	20.70	0.79	0.7	0.7	5.87	2.33	1.18	0.65
	ORF SEQ ID NO:	32487	L		32505					30571	30572	30573		30546	30514	30518	30519	30520	30521	30522	30527	32681	32602	32698	32697	32704	32705	32711	32715	32474	32754
	SEQ ID	19466	19468	19468		Ш		_ {		17935	17936	17936	17940	17950	17960	17963	17964	- 1	- 1	- 1	1/9/0	108/2	19846	19650	19650	19658	19658	19665	19669	19454	19700
	Probe SEQ ID NO:	6805	6807	6807	6822	6837	6845	6845	6846	6858	6859	6829	6863	6874	9884	6887	8889	6888	6889	6889	200	7069 7069	8069	6913	6913	6922	6922	6929	6934	6972	7008

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Single Exon Probes Expressed in Brain	(Top) Hit Acession Darbase BLAST E Value No. Top Hit Descriptor Source	0.0E+00 (AB026883 1 NT HAMP SECTION 1	HOT HIMAN	Τ	EST HIMAN	ENT LI MANN	N F I OWAN	5.1 NT	Ž	EST HIMAN	00 11428081 NT	EST HIMAN	EST HIMAN	7	EST HUMAN	EST HIMAN	TN	12	11436699 NT	11436699 NT) AF2277.	T SU	NAMOU I ST		EST_HUMAN	N	AF227135.1 NT	11426392 NT	11426392NT	0.0E+00 BF337375.1 EST HUMAN 802035089F1 NCI CGAP Brn64 Home senjers CDNA - LATA CELATION COLOR BRNA	T
-	2000年111	0E+00 AB0	0E+00 AU1	0E+00 AU1	OE+00 AW9	0E+00 BE2	0E+00 019	DE+00 AB00	DE+00 AB00	DE+00 AU13	8+ <u>H</u>	E+00 AA31	E+00 AU14	₽±₩	E+00 BE89	E+00 BE89	E+00 AF13	E+00 AF13	E+00	E+00	E+00 AF227	E+00 A1128			±+00 AI128	E+00 AF227	+00 AF227	00+			
-	-		L	L	1.2 0.0	L	L	1	l		1		1	l	L	L														.	
	Expression Signal	0.65	1.07	1.07			0.98	0.64			6.0	0.58	2.5	0.94	1.32	1.32	2.5	2.54	5.01	5.01	0.55	37.67			37.67	0.66	0.66	4.85	4.65	15.23	285
	ORF SEQ ID NO:	32755		32762		32769	32781	32791	32792	32799	32818	32820		32825	32834	32835	30495	30496	32876	32877	32891	32911			32912	32914	32915	32918	32919	1	32821
	Exen SEQ ID NO:	19700	19705	19705	19711	19712	19725	19732	19732	19738	19753	19755	19760	19761	19770	19770	17981	17981	19810	19810	19824	19843	-	0,00	19843	2040	19845	2049	200	19850	19852
	Probe SEQ ID NO:	7008	7013	7013	7019	7020	7033	784	7941	7047	7062	98	7069	7070	679	7079	100	7100	7122	7122	7137	7156	-	24.0	7150	8 5	0 0	101/	5	3	7165

Page 515 of 536 Table 4

		_	_	T	Т	Т	$\overline{}$	Т	_	_	_	7	_	_	_		_	_	_	_	_	_	_	,					٠						
Single Exon Probes Expressed in Brain	Top Hit Descriptor		DVEZ - IO INVEST	DNF 2p434B0226 r1 434 (synonym: https://doi.org/10.00000000000000000000000000000000000	DNT 2P434B0222	out 1745/6F1 NIH_MGC_17 Hamo sapiens cDNA clone IMAGE:3529794 5/	Homo sapiens hypothetical protein (FLJ20261), mRNA	AU118607 HEMBA1 Homo sapiens cDNA clone HEMBA1003969 5'	riomo sapiens ankyrin 1 (ANK1) mRNA, complete cds	Homo sapiens ankyrin 1 (ANK1) mRNA, complete cds	Homo sapiens adlican mRNA, complete cds	n.sapiens UNA for ZNGP2 pseudogene, exon 4	Human P2x1 receptor mRNA, complete cds	numan PZYI receptor mRNA, complete cds	ESI 3685/3 MAGE resequences, MAGD Homo saplens cDNA 7e60h08.x1 NCI CGAP GCR Homo saplens cDNA	HEAVY CHAIN PRECURSOR V-II REGION (HUMAN):	EST362586 MAGE resequences MAGA Homo control	AF001543 Human CDNA (Chandrosekhangen S N)	ARCO1543 Himmen CDNA (Chandred Library Co.C.) Homo septens cDNA clone kappa_200	AF001543 Human Cond. (Citatul asenitatappa, S.C.) Homo saplens cDNA clone kappa_200	Himen BTE3 make: L	And 302 2021 And 1100 2011	octobrill HE BYO THIN TWO ZI Homo saplens oDNA clone IMAGE:3637434 5'	Massacra 2017-0-10171 NIH MGC 36 Homo sapiens cDNA clone IMAGE:3054924 5	Addition of the Indian November of the Indian States of the Indian of th	A MAZES HELE	AU 11/653 HEMBA1 Homo sapiens cDNA clone HEMBA1001661 5'	Homo sapiens glucagon-like peptide 2 receptor (GLP2R), mRNA	MK0-AN0083-270900-004-t07 AN0083 Homo sapiens cDNA	Homo sapiens zinc finger homeodomain protein (ATBF1-A) mRNA, complete cds	outes9823F1 NIH_MGC_17 Hamo saplens cDNA clone IMAGE:4123948 57	001089823F1 NIH_MGC_17 Homo saplens cDNA clone IMAGE:4123948 5	AU 118767 HEMBA1 Homo sapiens cDNA clone HEMBA1004314 5'	cn17do5.x1 Normal Human Trahecular Rone Celle Home contractions	TOTAL SEPTEMBER CONTROL OF THE CONTR
gle Exon Pro	Top Hit Database	DO .	ENT UITANN	TOT TOWAR	NEW TOTAL	TO TOWAR	FOR LINE	ES HOMAN	H		- N	H	E I	140	ES HUMAN	EST HUMAN	EST_HUMAN	EST HUMAN	Т	Τ	7	T HI IMAN	Ţ	7		7	NAMOL		EST_HUMAN	_	す	T	LO LONGAIN	EST_HUMAN o	
Sin	Top Hit Acession No.		AI 079497 1	0.0E+00 AL 079497 1	T	7005	A111186	T	1	T	T			2	T		1		Γ	Γ	0.0E+00 M90354,1	Τ		T	,	T	190	2	0.0F+001328324		Ī	T	T		
	Most Similar (Top) Hit BLAST E	Value	0.0E+00	0.0E+00	0.0E+00	0 OF+00	0 0F+00	0 0F±00	0.0E+00	005+00	0.0	0.05+00	0.0E+00	0 0F+00		0.0E+00	0.0=+00/	0.0E+00/	0.0E+00	0.0E+00 A	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	005+00	00F+00	0 0F+00	0 0F+00 B	O OF +OO B	0.0F+00 AI 1418787.4		0.0E+00 AI752561.1	
	Expression Signal		2.0	0.7	1.09	-	1.42	1.89	1.99	0.87	8.04	8.51	8.51	0.86		0.56	70.7	0.57	0.57	0.57	0.56	0.98	9.0	1.43	1.88	1.31	3.67	0.58	0.67	1.18	1.18	0.92		4.16	
	ORF SEQ ID NO:				32969	32970		32973	32974	32984	32989	32991	32992	33007	0000	33040	2000	33033	33034	33035		33053	33064		33083		33101	33125	33133	33154	33155	33166		33223	
	Exan SEQ ID NO:		19856]		19898	19899	19899	19911	19917	19919	19919	19932	7000	19935	100	/088	/cgg	18957	19975	19976	19988	20005	20006	20023	20025	20046	20052	20075	20075	20083	-	20133	
	Probe SEQ ID NO:		7170	7170	7208	7210	7213	7214	7214	7226	7232	7234	7234	7247	7240	7250	7272	12/0	5/2/	(2/3	7292	7283	7305	7322	7323	7342	l		7372			7406		7460	
													1		 -		1				_		_1					Ш	Ш					لـ	

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Table 4

Single Exon Probes Expressed in Brain	Top Hit Descriptor		cn17d05.x1 Normal Human Trabecular Bone Cells Homo saplens cDNA clone NHTBC_cn17d05 random Homo saplens dynactin 1 (DCTN1) gene, afternatively spliced products, exons 7 through 32 and complete	Homo saplens dynactin 1 (DCTN1) gene, alternatively spliced products, exons 7 through 32 and commission		Hono septens sema domain, seven thrombospondin repeats (type 1 and type 1-like), transmembrane domain.	N, and all cylighasmic domain, (semaphorin) 5A (SEMA5A), mRNA ba01e06.y1 NIH_MGC_7 Home saplents cDNA clone IMAGE:2823106 6' similar to SW:P101_PIG O02696 PHOSPHATION INCESTOR A CLOSE OF SEMAN	ba01e06.yl NIH_MGC_7 Honos sepiers SDNA clone IMAGE:2823106.5' similar to SW:P101_PIG 002696 PHOSPHATINA INOSTATA 2 MINGE FIRST	wb17g05.x1 NOI_CGAP_GC6 Homo sapiens cDNA clone IMAGE:2305976 3' similar to TR:075363 075363	wb17g05.x1 NCI_CGAP_GC6 Homo sapiens cDNA clone IMAGE:2305976.3' similar to TR-O75383 O75383	AIBC1.;	Fromo Sapiens transient receptor potential channel 5 (TRPC5), mRNA	Zadoeub.sr Soares_fetal_lung_NbHL19W Homo sapiens cDNA clone IMAGE:288456 3'	out ecoacost 1 NIH_MGC_57 Homo sapiens cDNA clone IMAGE:4103729 5	ACTIZECZINI ZRPZ Homo saplens cDNA clone NT2RP2005913 5'	Cr42-00 of Tin hardwistroma Homo saplens cDNA clone HBMSC_cr42e09 3'	or account of the following th	AV758467 BM U	AN FORM IN INTO SEQUENS CLNA GONE BMFBGG05 5'	601593150F1 NIH_MGC_9 Homo sepiens cDNA clone IMAGE:3947365 5	COLOCALIVATE MICC. 9 Hama septens cDNA clane IMAGE:3847365 5	Homo sapiens atrophin-1 interacting protein 1; activin receptor interacting protein 1 (KIAA0705), mRNA	Omo saplens atrentin 4 information	41170424 HEMBER 11, merepung protein 1; activin receptor interacting protein 1 (KIAA0705), mRNA	AU120424 HEMBB1 Lizane Series CDNA clone HEMBB1000655 5'	601481713F1 NIH_MGC_68 Homo sapiens cDNA clone IMAGE:38a4258 F
igle Exon Pro	Top Hit Datebase Source	i i	ESI TIOMAN		I LUL	NGWIO - LO	EST HIMAN	EST HUMAN	EST HIMAN		HOMAN	1 11 11 11 11	Т	Т	T	Т	Т	H IMAN	T	Т	NG INC.			HIMAN	Т	П
Sir	Top Hit Acess No.	+00 A1752581 4	+00 AF064205 1	0.0E+00 AF064205 1	+00 U74315 1	TN C45/1417	+00 AW672785.1	-00 AW672785.1	-00 AI825504.1		104079E	2017		T	0.0E+00 AW069274.1	Т	184	0.0E+00 AV758467.1		0.0E+00 BE739870.1	1 8	0812401 N	6912461 NT		Γ	П
	Most Similar (Top) Hit BLAST E Value	0 0F+00	0.0E+00	0.05+00	0.0E+00	0.0E+00	0.05+00	0.0E+00	0.0E+00	10 C	00+400	0.0F+00 N78128 4	0 0F +00	0.0E+00/	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00 B	00490	3	0.0E+00	0.0E+00 AU120424.1	0.0E+00 AU120424.1	0.0E+00 BE787610.1
	Expression Signal	4.16	1.83	1.83	1.14	1.1	2.28	2.28	1.97	1.97	1.51	1.09	5.87	5.41	0.97	76.0	8.26	1.13	6.31	6.31	1.18		1.18	0.71	0.71	1.81
	ORF SEQ ID NO:	33224			33313	33330	33343	33344	33360	33361	33370	33373	33377	33387	33406	33407	33409	33416	33417	33418	33419		33420	33421	33422	33456
	Exon SEQ ID NO:	20133	20205		20213	20227	20239	20239	20254	20254	20262	20265	20270	20279	25117	25117	20301	20308	20309	20309	20310	-	20310	20311	20311	20344
	Probe SEQ ID NO:	7460	7535	7535	7543	7557	7570	7570	7586	7586	7594	7599	7604	7813	7633	7633	7636	7843	7645	7845	7646		7846	7647	7847	7680
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			Т	T-	П	_	-	Т	T	т-	_	_	_	Τ-	_		_			,			,	_			_	_				
Single Exon Probes Expressed in Brain	Top Hit Descriptor		001481713F1 NIH, MGC_68 Homo saplens cDNA clone IMAGE:3884268 5	ZS90H 0.11 Pancreatic Islet Homo saplens cDNA clone IMAGE:338443 5'		nra 3808.s1 MOL CGAP_GCB1 Homo saplens cDNA clone IMAGE:1287638 3' similar to do:U01828	MICACI UBULE-ASSOCIATED PROTEIN 2 (HUMAN);	A013518/ N12KP4 Homo sepiens cDNA clone NT2RP4001507 5	20113034/FI NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3503050 5	FOURTS AND MOC ON (#33/204) Homo sapiens cDNA clone IMAGE:566410 5	2022-60 - 1 Nin West 20 Homo sapiens cDNA clone IMAGE:3955131 5'	RA130FERSE ANIL MOC 2011	Human Control of the Maria Anna Saplens CDNA clone IMAGE:3639903 5'	Inditien emyloid both and APP) gene, exon 11	bb34d02.yf NIH MGC 10 Home septens cDNA clave IMAGE: 30864.37 Er clarity.	F17K2.26 PROTEIN.;	bb34d02.y1 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:2985123 5' similar to TR:064652 064652	281b04.r1 Strategene schizo brain S11 Homo saplens cDNA clone IMAGE:728719 5' similar to TR-Gannara	G30048Z POL=REVERSE TRANSCRIPTASE HOMOLOG (RETROVIRAL ELEMENT);	Homo carione - BMA 6. 17, 10031 Homo sapiens cDNA	AU142402 Y700&1 Home control of the	601285550F1 NIH MGC 44 Home Carlos TNIA	601285550F1 NIH MGC 44 Home Caristan DNA	2e05d01.r1 Soares fetal hear NHHH10M U.	2e05d01.11 Spares fetal heart NHH140M United September CON Clone (MAGE:358081 5	602153008F1 NIH M.C. 84 Home Capital China Sapitals China Cone (MAGE:358081 5'	AU134114 OVARC1 Home scripts and a cione IMAGE:4294128 5	302069632F1 NCI CGAB Brief Lond Clone OVARC1001296 5	602069632F1 NCI CGAP Brief Dame 2011 2011 2012 2012 2012 2012 2012 201	JKF20761P092 r1 761 (simonim: home) U.	DKFZp761P092_r1 761 (synonym: hamy2) Homo saplens cDNA clone DKFZp761P092 5:	
gle Exon Pro	Top Hit Database Source	TOU	EST HOMAN	EST HIMAN	EST HIMAN	1444	FOT LINEAN	EST HOMAN	EST HIMAN	EST HIMAN	EST LIMAN	EST HIMAN	LN LN	Į.		EST_HUMAN	EST HUMAN		EST TIMAN	Т	T HUMAN	Т	HUMAN	Т	Г	Т	T	Т	Т	Т	П	
Sin	Top Hit Acession No.	+00 BE787840 4	+00 W52673 4	+00 AW 402332.1	+00 AA 760692.1		1	T	T	T	Ī				Π	00 AW674581.1 E	30 AW674581.1			Ī						Ī	Γ				П	
	Most Similar (Top) Hit BLAST E Value	0 0F +00	0.05+00	0.0E+00	0.0E+00	0.05+00	0.0E+00	0.0E+00	0.0E+001	0.0E+00	0.0E+00/	0.0E+00	0.0E+00 M34872 1	0.0E+00		0.0E+00	0.0E+00	A 00+H0 0	0.0E+00.A	0.0E+00 A	0.0E+00 AU142402.1	0.0E+00 BE388421.1	0.0E+00 BE388421.1	0.0E+00 W95278.1	0.0E+00 W95278.1	0.0E+00 BF673096.1	0.0E+00 AU134114.1	0.0E+00 BF525534.1	0.0E+00 BF525534.1	0.0E+00 AI	0.0E+00 AL120124.1	
	Expression Signal	181	0.63	0.56	0.76	0.76	0.6	0.82	1.13	0.84	0.45	2.31	10.48	10.46		0.74	0.74	3.04	1.41	0.73	7.02	1.63	1.63	1.09	1.09	6.89	0.67	0.95	0.95	1.59	1.59	
	ORF SEQ ID NO:	33457	33498	33513	33515	33516	33572	33630	33645	33659	33672	33688	33703	33704	107.00	3	33735	33741	33742		33744	33748	33749	33764	33765			33782	33783	33813	33814	
	Exan SEQ ID NO:	20344	20384	1 1	20400	20400	20448	20507	20519	20532	20544	20561	20576	20576	20802	1	20604	20611	20613	20616	20617	20621	20621	20637	20637	20639	28 86 83	20657	20657	20687	20687	
	Probe SEQ ID NO:	7680	7720	7734	7735	7735	7752	7812	7824	7837	7849	7866	788	7881	79097		7909	7916	7918	7921	7922	7926	928/	1342	7847	440	7948	7962	7962	/992	7887	
																								_								

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Table 4

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Single Exon Probes Expressed in Brain	Top Hit Acess No.	wm33af1.x1 NGI_CGAP_Ut4 Homo sapiens cDNA clone IMAGE:2437724 3' similar to TR:075457 075457		11416799 NT	AIS80780.1 FST HIMAN	1 EST HUMAN	Т		4758695 NT	4758695 NT	IN		-N-	IN.	FZ	Ł	Į	TW L	12	EST HIMANI	0.0E+00 11426572 NT Homo saniens immunociphulis curs of the constant of the co	0.0E+00 AW513513.1 EST HUMAN RETROVIRI IS.DE1 ATED BY 100 AW513513.1 EST HUMAN RETROVIRI IS.DE1 AW513513.1 EST HUMAN RETROVIRI IS.DE1 AW513513.1 EST HUMAN RETROVIRI IS.DE1 AW513513.1 EST HUMAN RETROVIRI IS.DE1 AW513513.1 EST HUMAN RETROVIRI IS.DE1 AW513513.1 EST HUMAN RETROVIRI IS.DE1 AW513513.1 EST HUMAN RETROVIRI IS.DE1 AW513513.1 EST HUMAN RETROVIRI IS.DE1 AW513513.1 EST HUMAN RETROVIRI IS.DE1 AW513513.1 EST HUMAN RETROVIRI IS.DE1 AW513513.1 EST HUMAN RETROVIRI IS.DE1 AW513513.1 EST HUMAN RETROVIRI IS.DE1 AW513513.1 EST HUMAN RETROVIRI IS.DE1 AW513513.1 EST HUMAN RETROVIRI IS.DE1 AW513513.1 EST HUMAN RETROVIRI IS.DE1 AW513513.1 EST HUMAN RETROVIRI IS.DE1 AW513513.1 EST HUMAN RETROVIRI IS.DE1 AW513513.1 EST HUMAN RETROVIRI IS.DE1 AW513513.1 EST HUMAN RETROVIRI IS.DE		EST_HUMAN	EST_HUMAN	EST_HUMAN	0.0E+00 BF313946.1 EST_HUMAN 601900571F1 NIH MGC 19 Homo sapiens cDNA clone IMAGE 413024 FF	Homo saplens leukocyte Immunoglobulin-like receptor, subfamily B (with TM and ITIM domains), member 3	HIMAN	
	Top Hilt Ace No.	A[884477.1	4A502294.1	1141	A1580780.1	3E890797.1	1W245765.1	4W245765.1	475	475	J88084 1	188084.1	J251760 1	98922 1	98922.1	98922.1	182979.1	F022655 1	F022655 1	U131671 1	11426	W513513.1		52650.1	13/0495.	A410545.1	F313946.1	11424	N 139673 1	N139673.1
	Most Similar (Top) Hit BLAST: E Value	0.0E+00	0.0E+00/	0.0E+00	0.0E+00/	0.0E+00	0.0E+00/	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00.X	0.0E+00.X	0.0E+00 X98922.1	0.0E+00	0.0E+00 A	0.0E+00/A	0.0E+00 A	0.0E+00	0.0E+00	- 6	0.0E+00 D52650.1	0.05.700	0.0E+00 A	0.0E+00 BI	0.0E+00		0.0E+00 AI
	Expression Signal	1.3	1.27	0.59	1.02	1.84	0.72	0.72	2.24	2.24	0.59	0.59	0.66	2.63	2.63	2.63	0.68	0.88	0.88	2.28	0.65	1.92	7	4.05	100	20.3	2.91	0.52	1.46	1.46
	ORF SEQ ID NO:	34120	34126		34137		34163	34164	34165	34166	34169	34170	34233	34239	34240	34241	34255	34300	34301	34303	34320		34323	34356	34360	3	+	34369	34374	34375
	Exan SEQ ID NO:	20980	.	1	ı	- 1	- 1	- 1	- 1	- 1	ı	21032	21097	21102	21102	21102	21117	21157	21157	21160	21175	21179	21181	21212	2121B	2 6	4168	21227	21232	21232
	Probe SEQ ID NO:	8286	8293	8238	8305	8308	8334	8334	8335	8335	8339	8339	8404	8409	8409	8409	8424	8465	8465	8468	8483	8487	8489	8520	8526	0520	0770	8535	8540	8540

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					ii.	ngle Exon Pro	Single Exon Probes Expressed in Brain
Probe SEQ ID NO:	SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acess No.	Top Hit Database Source	. Top Hit Descriptor
8545	5 21237		0.49	0 05 +00	00 000000		we30b10x1 NCL_CGAP_Kid11 Home saplens cDNA clone MAGE:2289579 3' elmilar to TB: 045044
8564	L	34393	0.76	0.05+00	00 AIGHO 180. I	ES HUMAN	015044 KIAA0335. ;
8574			0.59	0.05+00	0.0E+00 At 183301.2	ES HUMAN	CM1-TN0141-250900-439-b08 TN0141 Homo sapiens cDNA
8580	ı		5.89	0.00+00	BE260272 1	ENT ELIPANA	Homo sapiens chromosome 21 segment HS21C101
8585		34414	2.51	0.0E+00	0.0E+00 BF700165 1	EST HIMAN	RO2133283674 MILL MGC_19 Homo saplens cDNA clone IMAGE:3502836 5
8585	1		2.51	0.0E+00	0.0E+00 BF700165.1	EST HIMAN	POZ127004FT NIH MGC 56 Homo sapiens cDNA done IMAGE:4284542 5
8585	21277		2.51	0.0E+00		FOT CIPAN	OVZ12/004F1 NIH_MGC_56 Home sapiens cDNA clone IMAGE:4284542 5'
8600	21292	34434	0.53	0.0F+00		For Links	DVZ12/2004F1 NIH_MGC_56 Home sapiens cDNA clone IMAGE:4284542 5
8626	i 1		0.86	0.0E+00	0.0E+00 AL 449770 1	FOT HIMAN	A 440770 U. CGAP Lu24 Homo saplens cDNA clone IMAGE:2150949 3'
8631		34464	7.75	0.05+00		NO STATE OF	na-rest / U normo sapiens fetal brain (Stavrides GS) Homo sapiens cDNA pressor NCI_CGAP_Lu5 Homo sapiens cDNA clone IMAGE:1602194 3' similar to chiM35672 and
8637	\sqcup	34472	3.09	00-100	0 0F+00 10047037 NT	ES I DOMAN	RIBUSUMAL PROTEIN L7A (HUMAN);
8637		34473	308	00+100	10011001	2	Homo sabiens ankyrin 1, erythrocytic (ANK1), transcript variant 1, mRNA
8860		34499	13	00-100	0.0E+00 0.0E+00 V44467 2	Į.	Homo sapiens ankyrin 1, erythrocytic (ANK1), transcript variant 1, mRNA
8662	l	34501	4 83	20.100	7	2	Homo sapiens ITGB4 gene for Integrin beta 4 subunit, exons 3-41
8672	1		1.02	0.0=+00	0.0E+00 BE278917.1	EST HUMAN	801156330F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3139734 5'
	1		9	O.OE+OO	T	EST_HUMAN	AV718377 FHTB Homo saplens cDNA clone FHTBAAF11 5'
8679		34516	3.33	0.0E+00	0.0E+00 AW337277.1	EST HIMMON	Xw/3c07.x1 NCI_CGAP_Pan1 Homo sapiens cDNA clone IMAGE:2833644 3' similar to gb:X53587
8685		34521	1.12	0.0E+00/	T	Т	A HAGGE TO BE TO BE THE CONTROL OF T
8761	21453	34601	1.05	0.0E+00/		Т	AD 12403 I N I ZKMZ HOMO Saptens cDNA clone NT2RMZ001575 5'
8771		34610	0.86	0.0E+00/	T	7	Home series - Ball 4 - 1/14 -
8776		34614	0.54	0.0E+00	0.0E+00 R17132.1	7	with a several situation in the Auton of the second
8776	- [34615	0.54	0.0E+00 F	l	EST HUMAN	VIOLOGICAL Screen Many Leaf Aviig 11 anno Sapiens CDNA clone IMAGE:31674 5
8780	- 1	34617	4.43	0.0E+00 /	L	Т	Transfer of Science High Union Humb rathers cDNA clone IMAGE:31674 5
8780	- 1	34618	4.43	0.0E+00 /	Γ	Ţ	THE ACCOUNT OF THE TOTAL OF THE THOUSE SERVICE STATES TO THE THE THE THE THE THE THE THE THE THE
8815	- 1	34652	0.47	0.0E+00	Τ	T	AI 428804 NT20Do U. GBC ST Homo sapiens cDNA clone IMAGE:2935096 3'
8827	- 1	34664	1.04	0.0E+00	T	T	AV744784 DOB U.
8843	21535	34679	2.79	0.0E+00	1	Т	DIKEZ-424/1944 4 404 /
8843	21535	34680	2.79	0.0E+00	ĺ	EST HIMAN	DKF7p434C1814_51 434 (synonym: ntess) Homo sapiens cDNA clone DKF2p434C1814 3
8840		0,000			1	T-	Homo sapiens killer inhibitory recentor 2-2-4 (KIR224) and biller inhibitory recentor 2-2-4 (KIR224) and biller inhibitory recentor 2-2-4 (KIR224) and biller inhibitory.
8851	1	34686	1.17	0.0E+00		NT.	partial cds
0900	21242	34689	2.03	0.0E+00A	П	Г	Homo saplens mRNA for KIAA1512 gratein partial cds
0000	- 1	34696	0.65	0.0E+00 B		EST_HUMAN	602138483F1 NIH MGC 83 Homo saplens CONA alexandra Contraction
						1	CONTROL OF THE PROPERTY OF THE

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Single Exon Probes Expressed in Brain	Exon ORF SEQ Expression (Top) Hit Acession ID NO: Signal BLAST E No. Source Signal Value	7K29b03.X1 NCI_CGAP_OV18 Homo saplens cDNA clone IMAGE:3476692 3' similar to TR:O38448 O38448	0.0E+00 11422857 NT	34729 1.19 0.0E+00 K012411 NIT	34737 4.27 0.0E+00 AB020630 1	0.0E+00 AR020630 4 NIT	34744 1.79 0.0E+00 AV660739 1 FST HIMAN	34750 2.88 0.0E+00 7706638 NT	34755 0.5 0.0E+00 BE793328.1 FST HIMAN	34756 0.73 0.0E+00 AB033077.1 NT	34757 0.73 0.0E+00 AB033077.1 NT	0.91 0.0E+00 H73937.1 EST HUMAN	34779 4.57 0.0E+00 BE315402.1 EST HIMAN	34780 4.57 0.0E+00 BE315402.1 FST HIMAN	34795 0.46 0.0E+00 BE612721.1 EST HUMAN	34796 0.46 0.0E+00 BE612721.1 EST HUMAN	0.45 0.0E+00 M89986.1	34800 3.66 0.0E+00 X14766.1 NT	34820 2.03 0.0E+00 AI061395.1 EST HIMAN	34824 1.95 0.0E+00 A 1954607 1 EST THINAN	34828 4.65 0.0E+00 9258505 NT	34840 1.42 0.0E+00 AW958311 1 EST HIMAN	34851 2.46 0.0E+00 9635487 NT	34869 1.53 0.0E+00 AU142662.1 FST HIMAN	34887 1.78 0.0E+00 11436985 NT	1.18 0.0E+00 BE410768.1 EST HUMAN	34904 183 00E+00 BE002024	34920 1.1 0.0E+00 AB011150 1 INT	34921 7.72 0.0E+00 BE794823.1 FST HIMANI	34926 0.99 0.0E+00 BE810292 1 EST HIMAN	34927 0.99 0.0E+00 BE810292.1	34930 2.93 0.0E+00 AU136229.1 EST_HUMAN
			L																			34840	34851	34869	34887		34904	34920	34921	34926	34927	34930
-	0)						H		1 21812		- 1	- 1	- 4	J	- [- 1	- 1	21650					_	. 1	- (21733	21745			- 1		21767
L	Probe SEQ ID NO:	8860	8889	8898	8	8905	8910	ĝ	8921	89,	88	8	ğ	8	8954	88	895	8820	8	8985	8989	9000	9011	902	9042	8	9056	9070	907	9075	9075	9078

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Exon ORF SEQ Expression (Top) Hit Top Hit Acession Top Hit Acession			_	Т	7	7	_	77					_	.	_	_												
Exon ORF SEQ Expression Most Similar (Top) Hit Acession Top Hit Acession	bes Expressed in Brain	Top Hit Descriptor		601610247F1 NIH MGC_71 Home sapiens cDNA clone IMAGE:3911986 5'	601510247F1 NIH_MGC_71 Homo saplens cDNA clone IMAGE:3911986 5	Homo sapiens mRNA for KIAA0594 protein, partial cds	EST 50505 Gall bladder I Homo sapiens cDNA 5' end	EST 50505 Call bladder I Horno sapiens cDNA 5' end ba5408.y3 NIH MGC_10 Horno sapiens cDNA clone IMAGE:2900367 5' similar to TR:060275, O60275	NAMOSZEPRO IEIN ; be54008, N NIH_MCC_10 Homo sapiens cDNA clone IMAGE:2900367 5' similar to TR:060275 060275 KIAAARSO BEDOTEN ;	bag8065.yt NIH_MGC_7 Homo sapiens cDNA clone IMAGE:2823873 5' similar to gb:L35049 Mus musculus Rel-yimpana commission of the clone IMAGE:2823873 5' similar to gb:L35049 Mus musculus	ba09f05,yf NIH_MGC_7 Homo saplens cDNA clone IMAGE:2823873 5' similar to ob. 356049 Mire miscouling	BG-XL mRNA, complete cds (MOUSE);	OVZVZ3150F1 NCI_CGAP_Brn67 Homo saplens cDNA clone IMAGE:4168300 5	474-11 0090-201/00-222-008 H 10698 Homo sapiens cDNA	201433 1197 I NVH_MGC_86 Homo sapiens cDNA clone IMAGE:3859035 5	OCH 1331 10FT Wird Wind Code Homo sapiens cDNA clone IMAGE;3859035 5	Homo saplens leukocyte immunoglobulin-like receptor, subfamily B (with TM and ITIM domains), member 5 (LILRBS), mRNA	Homo sapiens leukocyte immunoglobulin-like receptor, subfamily B (with TM and ITIM domains), member 5	DKFZp434L0120 r1 434 (syngnym: https:// Homo.com/ann.com/	ow60h01 x1 Soares_NSF_F8_9W_OT_PA_P_S1 Homo sapiens cDNA clone IMAGE:1651249 3' similar to	SOMEOTORY AND AND AND AND AND AND AND AND AND AND	Home canions have the first form to the contract of the contra	Homo seniens hypothetical C2H2 zinc finger protein FLJ22504 (FLJ22504), mRNA	am09a06.x1 NCI_COMMAN_LOST Homo septems cDNA clone IMAGE:1881288 3' similar to SW:RL2B_HUMAN 223346 ftcs PIROCOMM_LOST HOMO septems cDNA clone IMAGE:1881288 3' similar to SW:RL2B_HUMAN	m09806.X1 NCI_CGAP_Lu5 Homo sapiens cDNA clone iMAGE:1881298 3' similar to SW:RL28 HLIMAN	253316 60S KIBOSOMAL PROTEIN L23A.;	Homo sablens polycystic kidney disease 2 like and a factory of	The state of the s
Exon NO: ORF SEQ ID NO: Expression Signal (Top) Hit Value Top Hit Acess No: Top Hit Acess No: 21772 34935 1.27 0.0E+00 BE83843.1 21772 34936 1.27 0.0E+00 BE83843.1 21790 34963 0.82 0.0E+00 AB011166.1 21794 34956 1.4 0.0E+00 AR344601.1 21794 34958 1.13 0.0E+00 AR344601.1 21794 34958 1.13 0.0E+00 AR344601.1 21834 34958 1.13 0.0E+00 AR344601.1 2184 34958 1.13 0.0E+00 AR344601.1 2185 35031 1.62 0.0E+00 AR344601.1 21867 35031 1.62 0.0E+00 AR934901.1 22033 35220 1.62 0.0E+00 AR934901.1 22031 35201 0.88 0.0E+00 BF034377.1 22031 35202 0.81 0.0E+00 AR939377.1	gle Exon Pro		1	ES! HOMAN	EST HUMAN	N	EST_HUMAN	HUMAN	EST HUMAN	EST HIMAN		EST HUMAN	EST HUMAN	EST HIMAN	EST HIMAN	ST HUMAN	F	5	T HUMAN		T	All Called		T HUMAN	T	T	T	
Exon ORF SEQ Expression Most Sir NO: 1D NO: Signal (Top) + Value 21772 :34935 1.27 0.0E 21790 34953 0.62 0.0E 21794 34953 0.62 0.0E 21794 34959 1.13 0.0E 21834 34959 1.13 0.0E 21897 35032 1.62 0.0E 21897 35030 2.77 0.0E 22031 35200 0.89 0.0E 22031 35201 0.8 0.0E 22040 35211 0.8 0.0E 22040 35212 0.8 0.0E 2041 33524 0.72 0.0E 2041 33524 0.72 0.0E 20413 33532 2.51 0.0E 20413 33532 2.51 0.0E 20414 33533 1.99 0.0E	<u></u>		DECONOTO 4	DE003043.1	DE883843.1	A A 2 4 4 90 . 1	AA344601.1	AW673460 1	AW673469.1	BE207063.1			l				5803069	5803069			Γ	30151	11560151 N			T	Γ	1
Exon ORF SEQ Express NGm ORF SEQ ID NO: Signa SEQ ID NO: Signa 21772 34936 21772 34936 21784 34999 21834 34999 21834 34999 21834 34999 22031 35202 22031 35202 22040 35211 0 0 22040 33521 0 0 20411 33531 9 20413 33531 1		Most Similar (Top) Hit BLAST E Value	000	0.01-00	0.00	001100	0.05400	0.05	0.0E+00			0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00/	0.0E+00/	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.05+00.0	0.0E+00	0.0E+00	
Exon OR SEQ ID OR NO: 10172 21772 21772 21774 21834 221834 22031 22031 22040 3 20411 3 3 3 20411 3 3 3 20411 3 3 3 20411 3 3 3 20411 3 3 3 20411 3 3 3 20411 3 3 3 20411 3 3 3 20411 3 3 3 20411 3 3 3 3 20411 3 3 3 3 20411 3 3 3 3 20411 3 3 3 3 20411 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3		Expression Signal	1 27	1.07	0.62	14	1.4	1.13	1.13	1.62	1.62	1.6	2.77	0.88	0.88	0.5	0.81	0.81	1.5	1.28	0.72	2.51	2.51	9.88	88.6	- 86:	3.07	
		ORF SEQ ID NO:	L				L		34999	35031	35032	35260	35093	35201	35202	35209	35211	35212	35137	35171	33524	33527	33528	33531	33532	33533	35117	
			L	L			1	L				li		22031	22031	22037	22040	22040	21963	21998	20409	20411	20411	20413	20413	20414	21945	
Probe SEQ ID NO: NO: 90833 9184 9188 9286 9286 9286 9286 9286 9286 9286 9286 9286 9286 9286 9331 9338 9342 9342 9342 9342 9342 9342 9342 9342		Probe SEQ ID NO:	9083	9083	9102	9108	9108	9164	9164	9198	9198	9209	9244	9277	9277	9283	9286	9286	9536	9331	9338	9340	9340	9342	9342	9343	9370	

Page 523 of 536 Table 4 Single Exon Probes Expressed i

		_	_	_		_	_																										
Single Exon Probes Expressed in Brain	Top Hit Descriptor		601510882F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3912165 51	601510882F1 NIH_MGC_71 Hamo sapiens cDNA clone IMAGE:3912165 51	601109942F1 NIH_MGC_16 Homo saplens cDNA clone IMAGE:3350722 5'	601466828F1 NIH_MGC_67 Homo sapiens cDNA clone IMAGE:3870007 5	OUT400628F1 NIH_MGC_67 Homo capiens cDNA clone IMAGE:3870007 5' au86c04.v/ Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2783142 5' similar to change and clone IMAGE:2783142 5' similar to change and clone IMAGE:2783145 5' similar to change and clone IMAGE:2783145 5' similar to change and clone	60S RIBOSOMAL PROTEIN L7A (HUMAN);	601145034F2 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3160477 5'	Cool 38 Human pancreatic islet Homo saplens cDNA clone hbc5605	C00138 Human pancreatic islet Homo sapiens cDNA clone hbc5605	6013/8683F1 NIH_MGC_9 Homo saplens cDNA clone IMAGE:3927548 5'	romo sapiens solute carrier family 21 (organic anion transporter), member 9 (SL C21A9), mRNA	Homo sapiens solute carrier family 21 (organic anion transporter), member 9 (SLC21A9), mRNA	From Sapiens solute carrier family 21 (organic anion transporter), member 9 (SLC2149), mRNA	00 107 3423 T NIH MGC_21 Homo sapiens cDNA clone IMAGE:3956238 5'	AV/01629 ALDB Homo sepiens cDNA clone ADBBYH01 5'	normo septens keretin 2e (KR 12E) gene, complete cds	From Sapiens Keratin 2e (KRT2E) gene, complete cds	NOZ-01 0042-13030U-017-g01 BT0842 Homo sapiens cDNA	OTH BING-4RG-5-12-0-ULT NIH MGC 50 Homo sapiens CDNA clone IMAGE:3076943 5	COLLINITATION SQUENCE CON CONTRACT CON CONTRACT	Homo sapiens chromosome 9 duplication of the T cell receptor beta locus and trypsinogen gene families	lomo sapiens chramosome o dimilication of the Towns	601470824E1 NIH MGC RZ LAMPONION IN THE LEGISTIC BETAIN STATE OF S	601170824E4 NILL MCC CT Torno Sapiens CLNA clone IMAGE:3874037 5	Address 1.1 Second Supers CDNA clone IMAGE:3874037 5:	Adeas each hear North 19W Home sapiens cDNA clone IMAGE:340844 5	Homo conjoca - DANA 4	amsend of Jahrens for the record reliable protein, complete cds	different at 5 of 6 Hill Annual Cortex Homo saplens cDNA clone IMAGE:1539548 3	Multiple scienosis associated retrovints notwarday () DNA con Salva 5	ייייי רייייי אייייייייייייייייייייייייי
gie Exon Pro	Top Hit Database Source	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	ES! HUMAN	EST HUMAN	EST HUMAN	EST HUMAN	TO LONAIN	EST HUMAN	EST HOMAN	FOT LINKS	EST HUMAN	EST HUMAN		L	T HI BAAN	T	T		T LI INVANI	Т	T			Ę	EST HUMAN	T	Т	T	Т	HIMAN	Т	Т	
ก	Top Hit Acessian No.	0 0F±00 DE995429 4	0.0E+00 DE005120.	0.0E+00 DE603128.1	0.0E+00 BE7843824	00 DE781382 1	00 AW 463770 4	00 RF263101 1	106158 4	00 C06158 1	0.0E+00 RE746248 4	11/37/201 ES	11437282 IV	14437282 NIT	0.0E+00 BE900549 1		T	T			0.0E+00 AW 500293.1				BE783272.1	Γ			-		-		
	Most Similar (Top) Hit BLAST E Value	004300	20-10-0	00+100	0.01-10.0	0 OF+00	0.0F+00	0.05+00	0.0E+00 C08458 4	0.0E+00	0 0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+001A	0.0E+00 AF019084 1	0.0E+00 BE082977 1	0.0E+00 A	0.0E+00 A		0.0E+00 Ar029308.1	0.0E+00 A	0.0E+00 BI	0.0E+00 BI	0.0E+00 W	0.0E+00 W	0.0E+00 AE		0.0E+00 AV	0.0E+00 AF	
	Expression Signal	0.66	0 66	732	100	1.09	12.62	2.98	4.29	4.29	2.63	2.14	2.14	2.14	4.1	1.01	2.62	2.62	0.94	1.74	1.74	7	2	1.45	0.69	0.69	0.54	0.54	1.83	0.8	3.59	1.53	
	ORF SEQ ID NO:		35122		35219	L	35221	35243		35279		35292	35293	35294	35179	35307	35321	35322	35359	35379	35380	35386		35387	35388	35389	35400	35401	35410		35415	35466	
	Exen SEQ ID NO:	21948	21948	1]	1	22049	22071	Ш	22105		22117			22009	22128	22142	22142	22175	22194	22194	22203		22203	22205	22205	22214	22214	22225	22229	22231	22277	
	Probe SEQ ID NO:	9373	9873	9382	9385	9385	9387	9409	9427	9427	9429	9439	9439	9439	9459	9475	9489	9489	9522	9541	9541	9550		9550	P352	9552	9561	9561	9572	9576	9578	9624	
																															_	_	

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1					316 EAULT 10	Chighe Explicated Expressed in Brain
ORF SEQ Expression ID NO: Signal	Expression Signal		Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	. Top Hit Descriptor
35499		2.23	0.0E+00	+00 S78466.1	FZ	A(GF=andiogen-Indiped growth factor along forms
35500	,,,	2 23	00+300	+00 S784e8 1	1	And the second of the second o
		2.93	0.0E+00	+00 BE563320 1	EST HIMAN	Alich = androgen-induced growth factor AIGF [human, placenta, Genomic/mRNA, 498 nt, segment 5 of 5]
		1.64	0.0E+00	+00 AW363135.1	EST HIMAN	DE 133-603F NIT MGC 39 Home saplens cDNA clone IMAGE:3688680 5
35537		0.48	0.0E+00	11436432 NT	TN	Homo sapiens multimein (MARN) mRNA
		0.51	0.0E+00	11424387.NT	FZ	Homo sapiens leukocyte immunoglobulin-like receptor, subfamily B (with TM and ITIM domains), member 3
		0.54	0.0E+00	BE2067	EST HIMAN	HASEOT Y NIE VICC E H
		2.57	0.0E+00	Τ	EST HUMAN	AU132349 NT2RD2 Home scales CDNA clone IMAGE:2964000 3'
35569		2.57	0.0E+00	T	EST HIMAN	A1132340 NT2RB3 Home september CONA Clone NT2RP3004260 5
35581		0.77	0.0E+00	T	EST HUMAN	UI-HF-BDn-eic-6-06-01 12 NIH 4/CC 52 11
35586		9.08	0.0E+00		EST HUMAN	601595558F1 NIH MGC 9 Home contains Child Child Child
35587		9.08	0.0E+00		EST HUMAN	601595558F1 NIH MGC 9 Homo septems CDNA close 11/4 OF 20 2000
35588		0.48	0.0E+00		LN	Homo sapiens mRNA for KIAA1231 brotein partial cds
32589		9,48	0.0E+00	-00 AB033057.1	TN	Homo sapiens mRNA for KIAA1231 protein partial cds
35603		<u>:3</u>	0.0E+00	7662067 NT	LN.	Homo sapiens KIAA0345 dene product (KIAA0345) mRNA
35623		1.59	0.0E+00		EST_HUMAN	DKFZp434L0120 r1 434 (Synonym: htess) Hams capias COMA alexa Chiris and a sinonym black of the same of
35629		<u>:</u>	0.0E+00		EST_HUMAN	DKFZp434B2416 11 434 (swnonym, https://dwno.senlens.com/A clans. DKFZ-40454_0120 5
35636		25.5	0.0E+00		EST_HUMAN	AU132349 NT2RP3 Homo sapiens CDNA clone NT2RP2004220 E
35637		23	0.0E+00		ΝΤ	Homo sapiens protocadherin aloha 12 (PCDH-aloha12) mRNA complete odd
35664		83	0.0E+00		NT	Homo sapiens leucocyte immunoalobulin-like receptor-1 mRNA complete cus
35665		583	0.0E+00		LN TN	Homo saplens feucocyte Immunocioni illia recentaria illia
35678		1.81	20		EST HUMAN	MR4-TN0114-110900-101-604 TN0114 Home segies: CNNA
35704		2.41	0.0E+00	BE280793.1	EST HUMAN	80115527F1 NIH MGC 21 Home continue and All All All All All All All All All Al
35710		98.0	0.0E+00	Γ	1	601286351F1 NIH MGC 44 Home capters CDIVA done IMA GE 3138798 5'
35711		98.0	0.0E+00		í	601286351F1 NIH MGC 44 Homo septems CDNA clone IMAGE:3613045 5
35717		8	00.100		ı	xn72b01.x1 NCI_CGAP_CML1 Homo saplens cDNA clone IMAGE:2699977 3' similar to ch: Xn2452 - cdc-11
		3 8	0.05+000	0.0E+00 A A 4400F 4	EST HUMAN	LACTATE DEHYDROGENASE M CHAIN (HUMAN);
		2 6	00-100	T	Т	EST46740 Fetal kidney II Homo sapiens cDNA 5' end
		70,7	0.05	0.0E+00 AVV 904113.1	ESI_HUMAN	ES1376186 MAGE resequences, MAGH Homo sapiens cDNA
		701	0.05+00.0	T	Т	AU143673 779A41 Home saplens cDNA clone Y79AA1002307 5'
		-	V.VETUVI		EST HUMAN	AU143673 Y79AA1 Homo sapiens cDNA clone Y79AA1002307 5

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Table 4

	Top Hit Descriptor		(IRCI gene, exons 2, 3, and 4	RNA	RNA	slone PLACE1004737 5'	slone PLACE 1004737 5'	nBP7/Importin7 and partial ZNF143 gene	nBP7//mportin7 and partial ZNF143 gene	GKCDXA07 5	S GKCDXA07 5	URCI gene, excris 2, 3, and 4	10 saptens cDNA clone IMAGE:628197 5	22 ID. 1.1 Coares, program, urefus, North Homo sapiens cDNA clone IMAGE:503545 6	Pomo september VIEW VIEW NORTH DATE September CONA clone IMAGE: 603546 6'	Spo e	CUNA clone IMAGE:3893657 5'	GLINA clone IMAGE:3845403 5	CUNA clone IMAGE:3845403 5	Ione N I 2KP 2001212 5	CUNA clone IMAGE:3930177 5	CUNA clone IMAGE:3930177 5	CDINA CIONA CIETARY 7453 5	bua c Karoo		CDNA cione IMAGE:3917598 5	Protein FLJZZ504 (FLJZZ504), mRNA	n Abrazu, complete cds	CDINA GONE IMAGE: 2987918 5	CDINA Glone IMAGE:288/918 5	ote complete cds	2/19006.s1 Soares_fetal liver_spleen_tNFLS_S1 Homo sapiens cDNA clone IMAGE:450707.3' similar to	GAG POLYPROTEIN (HUMAN);	A, complete cds
Single Exon Probes Expressed in Brain	n		nomo sapiens killer cell inhibitory receptor KIRCI gene, exons 2, 3, and 4	Homo saplens HEF like Protein (HEFL), mRNA	Т	Т	Т	Home septens partial KANBP7 gene for RanBP7/importin? and partial ZNF143 gene	Т	AV695712 GKC Home septems count clone GKCDXA07 5	T	Т	Т	Т	Т	Т	(601570712F1 NIH MGC 24 Home continued of the line of	Т	Ţ	Т	Т	601432317F1 NIH MCC 72 Home Conf. Conf.	┰	Т	T	Т	Homo sapiens mRNA for actin hinding area	801105459F1 NIH Micc. 15 Home conjugation and conjugate cds	Г	Т	Homo saplens mRNA for estroden recentor beta complete cds		T	ROOM TO LEE A NO. OC. 1.
le Exon F	Top Hit Database Source	HA		2 5	N. TOUR	EST HUMAN	FIST FIGURAL	Z Z	EST WINAN	EST HIMAN	LN	EST HUMAN	EST HIMAN	EST HIMAN	L L	EST HIMAN	EST HUMAN	EST HUMAN	EST HUMAN	EST HIMAN	ST HIMAN	EST HUMAN	EST HUMAN	1	EST HUMAN		 -	EST HUMAN	EST HUMAN			EST HIMAN		ECT LI IAVANI
Sing	Top Hit Acession No.	100 AE072408 1	44424004		A! 1136637 1	T	T	Γ	T	T	T	Π		T	T	T		Γ	T		ĺ			8827	0.0E+00 BE891113.1 E	30151	0.0E+00 AB029290.1 NT				0.0E+00 AB006590.1 NT	0.0E+00 AA704457 1 ES		-
	Most Similar (Top) Hit BLAST E Value	0 0F+00	0 OF +00	0.01+00	00-100	0.01	0 OF+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00.E
	Expression Signal	2.98	2.75	2.75	3	8	2.08	2.08	1.04	1.04	0.74	3.11	-	٦	1.44	0.92	6.22	6.22	76.0	0.87	0.87	0.68	0.67	1.01	0.67	1.13	1.72	0.46	0.46	6.02	6.02	1.06	0.74	5.45
	ORF SEQ ID NO:	35763	L	L		35810	35824	35825			35840	35843	35873	35874	35922	35964	35972	35973	35977	35988	35989	36007	36020	36021	36032	36035	36041	36042	36043	36048	36049	36056	36057	36060
	Exen SEQ ID NO:	22587	22569	1	ı	1	ľ		li		- 1	ı	22659	22659	22704	22749	22760	22760	22765	22775	22775	22792	22802	22803	22814	22817	22827	22828	22828	22836	22835	22841	22843	22846
	Probe SEQ ID NO:	9918	9921	9921	9966	9956	9972	9972	4466	8977	8883	9882	191	10011	10056	10101	10112	10112	10117	10127	10127	10144	10154	10155	10166	10169	10179	19188	10180	10187	10187	10193	10195	10197

Page 526 of 536 Table 4 Single Exon Probes Expressed in t

			Г			П	T	1		7	_1	7	\neg	7	7-				Ţ	Т	т	Т	т	_	_	_	_	_	_		-	-
Single Exon Probes Expressed in Brain	Top Hit Descriptor	B030370/5E1 NCI OCAP P. C. II	SOCIAL TINCT COAT BITTO HOMO Sapiens CDNA clone IMAGE:4184939 6	801439743E4 NIII 14CC 7211	AV748274 DOB 11	AV716271 DCB Homo sapiens cDNA clone DCBBDC09 6'	wa38e03.x/ NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2300188 3' similar to TR:Q61204 Q61204 NOTCH24.IKE:	wa36e03.x1 NCI_CGAP_Kid11 Homo saplens cDNA clone IMAGE;2300188 3' similar to TR:Q61204	Homo sapiens Girannin (CAN)	FB23A4 Felsi htsln Stretanene Home conference Files in France in	A1122429 NARMMAR Home seniors of the control of the	Home sablens trible functional domain (DTDD) in the contraction of the	nabyset2 xt Scares NSE Es piv Ort Dx D Sx II.	AV654765 GLC Homo saniens cDNA clone GLCD2002 2	xu74b01 x1 NCI_CGAP_Kid8 Homo sapiens cDNA clone IMAGE:2807401 3' similar to gb:M69066 MOESIN	601078764E1 NIH M.C. 12 Home conjunction (1986)	Homo sanjans himothodinastic DVE7-724 Astronomy 2008	601467419F1 NIH MGC 67 Home seriors obtain of the contraction of the c	RC2-810642-150200-012-403 RT0642 Home smiles - PNA	RC2-BT0642-150200-012-d03 BT0642 Homo seniens cDNA	Human endogenous retrovirus-K. LTR U5 and aga gene	#54e07.x1 NCI CGAP GC6 Homo segiens cDNA clone IMA GE 2244842 21	601573895F1 NIH MGC 9 Homo sapiens cDNA clone IMAGE:3835198 5'	601573895F1 NIH MGC 9 Home sapiens cDNA clone IMAGE 3835408 F	601441723T1 NIH MGC 65 Horno saplens cDNA clone IMAGE: 3845656 31	601441723T1 NIH MGC 65 Homo saplens cDNA clone IMA CE 3845056 31	yp01a10.r1 Soares breast 3NbHBst Home sanlens cDNA clone IMA CE-19939 5	Homo sapiens DNA for amyloid precursor protein, complete one	Synthetic construct CD30 ligand-exotoxin A fusion protein (CD301 FTA fusion) mBNA mariel and	MR0-HT0559-270300-006-e12 HT0559 Homo sapiens cDNA	MR0-HT0559-270300-008-e12 HT0559 Homo sapiens cDNA	AV711075 Cu Homo sapiens cDNA clone CuAAKG05 6
gle Exon Pro	Top Hit Database Source	FOT HIMANI	EST HIMAN		EST LINAN	EST HUMAN	EST HUMAN	EST HUMAN	L	EST HUMAN	EST HUMAN		EST HUMAN	EST HUMAN	FST HIMAN	EST HUMAN		EST HUMAN	EST HUMAN	EST HUMAN	Z	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	FZ	LN	EST HUMAN		EST HUMAN
Sil	Top Hit Acession No.	BF340334 4	0.0E+00 BE8971491		T	0.0E+00 AV716271.1		00 Al631818.1	730	0.0E+00 T03078.1	Ī	921		0.0E+00 AV654766.1		Γ	8005									5.1		0.0E+00 D87675.1		0.0E+00 BE172264.1		0.0E+00 AV711075.1 E
	Most Similar (Top) Hit BLAST E Value	0.0E+00	0.0E+00	0.0F+00	0.0F+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00 H39805.1	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00/
	Expression Signal	5.45	0.93	0.83	0.55	0.55	2.36	2.36	0.49	1.52	0.64	0.46	2.5	0.97	2.75	8.82	0.75	2.79	1.9	1.9	0.66	0.86	1.33	1.33	2.49	2.49	0.57	1.01	0.45	1.02	1.02	2.76
	ORF SEQ ID NO:	36061				11	36143	36144		H	36190	36196	36214		36231	36236	36251	36279	36307	36308	36316	36325	36331	36332	36335	36336	36355	36380	36382	36392	36393	36463
	Exon SEQ ID NO:	L	22870	L		22900	22930						1	22996	23015	23020	23035	23060		- 1	- 1	- 1	- 1	- 1	23105	- 1	ı	- 1	- 1	23165	23165	23229
	Probe SEQ ID NO:	10197	10222	10222	10252	10252	10282	10282	10288	10298	10323	10329	10348	10349	10369	10374	10389	10414	10435	10435	10442	10448	10454	10434	10459	10459	10481	10508	10510	10519	10519	10932

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Table 4

				_	_	_	_		_	_	_	, -				_	_	_	_			_	_						
Single Exon Probes Expressed in Brain	Top Hit Descriptor	AV727382 HTC Home and a second	No. 2,502 TTC Truing septens CDNA clone HTCAQH06 5' No. 2,502 TTC Truing septens CDNA clone IMAGE:2852226 3' similar to ab:M60854 40S	AU135741 PLACET Homo caniers of NA class PLACETANGES	hg13d02x1 Scares_NFL_GBC_S1 Homo sapiens cDNA clone IMAGE:2945475 3' similar to contains element MSR1 reputition alement	hg13d02.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2945475 3' similar to contains element MSR1 remetitive alongers.	hg13d02.x1 Sorars NFL_T_GBC_S1 Homo saplens cDNA clone IMAGE:2945475 3' similar to contains	Haplers mony for 14 to 12 to 1	HSCSIC031 normalized infant bear 2014 11	Home carlons DCL4	Home series Fahla 7/EDHA 7: - Fria	Homo sapiens Enk 7 (EDM 2) - BNA	AWGGOTAL NOL CGAP, PART Homo sapiens cDNA clone IMAGE:2832985 3' similar to gb:X17115 IG MU	OTALIA OTALIANIAN);	OLTH-BI3 JR 24 A LH 4 NO CGAP Sub5 Homo saplens cDNA clone IMAGE:2736649 3'	Homo seriens ribosomal activity of APP 1000 Appens CDNA clone IMAGE:2736649.3	Homo seriens mBNA for KIA Anger	801119248F1 NIH MGC 17 Home canisms CNN Street WAS Excessed	Homo sapiens mRNA for KIAA0545 profess color cigile invAGE 3029219 3	AU124106 NT2RM2 Homo sapiens cDNA clone NT2RM2001678 5'	Homo saplens mRNA for KIAA117 protein nartial cris	Homo saplens mRNA for KIAA1117 protein parlial cds	601582046F1 NIH MGC 7 Homo seriens cloud alone MACE consess si	602141405F1 NIH MGC 46 Home series CDNA close IMAGE. 3930303 9	101186342F1 NIH MGC 8 Home carriance of the live of th	AU118386 HEMBA1 Homo sapiens CDNA clone HEMBA10044269 5	043c03.x/ Scenes Fastis NHT Home carrier Coll. Mil. 100.2460 5	qf43c03.x1 Soares testis NHT Homo saniens cDNA clone IMAGE:1752772 or	QV4-ST0234-121199-032-506 ST0234 Homo sapiens cDNA
gle Exon Pro	Top Hit Database Source	EST HIMAN	NG STATE OF	EST HUMAN	EST HUMAN	EST HUMAN	HOT HE	NT	EST HUMAN	L	Į.	L	EST HIMAN	FOT LIMAN	ENT HIMAN			HUMAN	Г	T_HUMAN		Γ	EST_HUMAN	EST_HUMAN	EST HUMAN		EST HUMAN	т-	EST_HUMAN C
Sin	Top Hit Acession No.	+00 AV727362.1	0 0E+00 AM/648065 4	0.0E+00 AU135741.1	+00 AW59333.1	+00 AW59333.1		Τ	T		4758281	4758281 NT	-00 AW338094.1	T	T	9632	0.0E+00 AB014567.1		Γ						00 BE269288.1 E		00 Al149809.1		00 AW391937.1 E
	Most Similar (Top) Hit BLAST E Value	0.0E+00	00+	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00/	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00 AB029040.1	0.0E+00 AB029040.1	0.0E+00 B	0.0E+00 BF684061.1	0.0E+00 B	0.0E+00	0.0E+00	0.0E+00 AI	0.0E+00 A
	Expression Signal	33.99	9.50	3.18	3.41	3.41	3.41	1.89	2.97	1.79	1.33	1.33	2.13	4.62	4.62	11.67	2.53	1.98	2.04	1.71	1.45	1.45	4.04	59.14	1.3	5.6	6.53	6.53	3.04
	ORF SEQ ID NO:	36591		36613	36617	36618	36619	36620	36621	36629	36634	36635	36648	36649	36650		38652	36670	38683	2000	36697	36698	36702		36703	36706	36710	36711	36712
	Exan SEQ ID NO:	23352	23365	23371	23377	23377		_)	- 1	ı	- [23396	23407	23408	23408	13021	23411	23425	23439	2344/	\$5+53 5-453 5-553	2424	23409	23460	23461	23484	23469	23469	23470
	Probe SEQ ID NO:	10661	10674	10680	10686	10686	10686	10688	10689	10700	10706	10706	10718	10719	10719	10721	10723	10738	10/54	10/63	1/0	10//01	0//01	///01	2//01	10/81	10/88	10/86	10/01
								_	_	_													_						

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					15	igie Exon Pro	Single Exon Probes Expressed in Brain
Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acesslon No.	Top Hit Database Source	Top Hit Descriptor
10798	23481	36721	4.39	0,0E+	-00 AF223391.1	Į.	Homo sapiens calcium channel alpha1E subunit (CACNA1E) gene, exons 7-49, and partial cds, alternatively spliced
10798		36722	4.39	0.0E+00		F 2	Homo sapiens calcium channel alpha1E subunit (CACNA1E) gene, exons 7-49, and partial cds. alternatively
10807		36726	9.57	0.0E+00	0.0E+00 11424726 NT	- L	Spilled Hamper Inc. III.
10814		36733	1.42	0.0E+00		EST HIMAN	OVALIMATIONS AZOGO ANA JOSE I LASSES.
10814	_ [1.42	0.0E+00		EST HUMAN	A COMMISSED FOR THE TOTAL TOTAL TOTAL TOTAL SEPTENCE ON A TOTAL THROUGH THE TOTAL TOTAL TOTAL TOTAL THROUGH TH
10815	\perp		1.6	0.0E+00	T	EST HIMAN	AND STATES AND COME OF THE COMPANY O
10817		36738	52.94	0.0E+00	T	EST HIMAN	AND AND AND AND AND AND AND AND AND AND
10821	_1	36743	2.37	0.0E+00		LN LN	Home emiliary many 6. 174 A 444.2
10824		36746	1.69	0.0E+00		LN	Homo sanlens mDNA for kIAAA1117 protein, partial cds
10828		36750	3.47	0.0E+00		Į.	Himos septets in the Alexander protein, partial cds
10832	_1	36755	1.55	0.0E+00	<u></u>	EST HIMANI	Port Enday 470700 6.5 Substrate 80K-H (PRKCSH) gene, exon 15-17
10832	23514	36756	1.55	0.0E+00		EST LIMAN	POST 10134 1700-012407 F 10134 Home saplens cDNA
10838	23520	36762	1.47	0.0E+00		FST HIMAN	KV 1-F IU 134-170700-012-107 F 10134 Homo sapiens cDNA
10854	23534	36779	136.91	100	,		ob32e07.s1 NCI_CGAP_Kid5 Hamo sapiens cDNA not directional
10857	23537	36783	2.05	0 0F+00		ES HUMAN	MSK1 repetitive element;
10863	23543	36790	2.91	0.0E+00.4		NH HOMAN	nau4nu4.x1 NCI_CGAP_Kid12 Homo sapiens cDNA clone IMAGE:2872759 3'
10879	23559	36806	7.34	0.0E+001C05089 4		COT LITTORY	normo sapiens signaling lymphocytic activation molecule (SLAM) gene, exon 2
10886	23566	36814	2.31	0.0E+00.0	Ţ,	Т	COCCOS Figure 1 (Vivakamura) Homo saplens cDNA clone 3NHC4817
10886	23568	36815	2.31	0.0E+00/		Т	Gasonuti. In NCI_CGAP_GCB1 Homo saplens cDNA clone IMAGE:1309009 5'
10895	23575	36825	3.74	0.0E+00 M78448.1	T	Т	Cathoring Control Court Great Home sapiens cDNA clone IMAGE:1309009 6'
10895	23575	36826	3.74	0.0E+00 M78448.1		Т	ESTINGED Felal brill - Cartagene (cattg36206) Homo saplens cDNA clone HFBCC26
10898	23578	36827	6.82	0.0E+00	Τ	7	Convocar Petral Institution (Cathed 2020) Homo sapiens cDNA clone HFBCC26
10910	23590	36836	5.81	0.0E+00	0.0E+00 At 1116988 1	7	2010 1971 (2010) (2010) (2010) Homo Sapiens cDNA clone DKFZp761/2116 5
10924	23604	36853	29.7	0.0E+00	l	Т	AVERGEE OVER HOME SAPIES CON A CIONE HEMBA1000424 6'
10932	23612	36862	2.09	0.0E+00		EST LIMAN	AV92309 CNC Homo saplens cDNA clone GKCCNC03 5'
10955	18399	31311	2.73	0 0F+00		_	LIS-N I 0104-200500-143-A07 NT0104 Homo sapiens cDNA
10955	18399	31312	27.0	V 00+400	T		Homo sapiens mRNA for neurexin II, complete cds
10960	23636	36887	2 84	200		7	Homo sapiens mRNA for neurexin II, complete cds
10960	23636	36888	28.0	0.05-100	1	٦	PM0-HT0645-060500-002-E05 HT0645 Home sapiens cDNA
10981	23637	+	4 -	0.00+10.0		\neg	PM0-HT0645-060500-002-E05 HT0645 Homo sapiens cDNA
10980	23855	36908	100	0.0E+00		П	AV701152 ADA Homo sapiens cDNA clone ADAAAD06 5
	1	20000	4.07		BE896423.1 E	EST_HUMAN	601439092F1 NIH_MGC 72 Homo sapiens cDNA clone IMA CE:3024142 E

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Table 4
Single Exon Probes Expressed in E

			Τ	П	_			Г	Π	Τ	Γ	Γ	Γ	Γ	Τ	Γ	Τ	Γ	Τ	T	Т	100	a	_	Т	T	7	Т	ГТ	$\overline{}$
Single Exon Probes Expressed in Brain	Top Hit Descriptor		UI-TIT-BND-8KG-4-02-0-UI-11 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3077019 5	bb78c04.y1 NIH_MGC_10 Homo saplens cDNA clone IMAGE:3077019 5' bb78c04.y1 NIH_MGC_10 Homo saplens cDNA clone IMAGE:3048486 5' similar to gb:Y00345_cds1 POLYADENYLATE-BINDING PROTEIN (4! IMAM), abyoeses	protein (MOUSE):	602043377F1 NCI CGAP Briefy United States	602043377F1 NCI CGAP Bm67 Home smiles DNA 1. 111.05.	602043377F1 NCI CCAP Bres Lower Control (MAGE: 4181083 5)	MR4-ST0118-04-00-00-00-00-00-00-00-00-00-00-00-00-	MR4-ST0418-044000 040 A 42 ST84421	Homo saplens Enka 7 (EDLAY) - BAIA	601440446F4 NILA MCC C 22 Land	8086011 x1 Schiller meninciona Lious 2-11	PARACIA VI Schiller months in the Suprementation of the Comment of Schiller months in the Comment of Schille	INKEZAZAI 0420 -4 224/	Home september 2011 1434 (Synor)/m: Ries3) Homo Sapiens cDNA clone DKFZp434L0120 5	Home eaglest geptyll (ef r) mk/A	AND SACRETA MILL MODICE AND ACCURATION OF THE MACHINE MODICE AND ACCURATION OF THE MACHINE MODICE AND ACCURATION OF THE MACHINE MODICE AND ACCURATION OF THE MACHINE M	ULH BI2 can bot o 111 2 200 0 200 0 200 0 0 0 0 0 0 0 0 0	Home series and the Color of th	Homo capiens mDNA for VIAAOV17 protein, partial cds	Trans septens intrivation MANUT / protein, partial cds ba04407 yf NIH_MGC_7 Homo septens cDNA clone IMAGE:2823373 5' similar to TR:076022 076022 E1B- 55KDA-ASSOCIATED POCTEIN	ba04407.y1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:2823373 5 similar to TR:078022 078022 E1B	SORDA-ASSOCIATED PROTEIN.;	Homo sapiens KIAA0426 gene product (KIAA0426), mRNA	Homo saplens myosin, heavy polypeptide 4, skeletal muscle (MYH4), mRNA	Homo sapiens zinc finger homeodomain protein (ATBF1-A) mRNA, complete cds	RC3-HT0230-040500-110-h04 HT0230 Homo sapiens cDNA	ba54408.33 NIH_MGC_10 Homo sapiens cDNA done IMAGE:2900367 5' similar to TR:060275 O60275	ba54408.y3 NIIH_MGC_10 Homo sapiens cDNA clone IMAGE:2900367 5' similar to TR:O60275 O60275 KIAA0522 PROTEIN;
igle Exon Pro	Top Hit Database Source	TOT TO	FST HIMAN	NUMBER	EST HUMAN	EST HUMAN	EST_HUMAN	EST HUMAN	EST HUMAN	EST HUMAN	N F	EST HUMAN	EST HUMAN	EST HUMAN	EST HIMAN	·I.	17	EST HIMAN	EST HIMAN	LN LN		HUMAN		HOMAN			14071 11 1101	\top		
	Top Hit Acession No.	-00 AW500307 4	-00 AW500307.1		00 BE018293.1	0.0E+00 BF528907.1	0.0E+00 BF528907.1	0.0E+00 BF528907.1	Γ	•	0.0E+00 4758281 NT	l				10880982							0.0E+00 BE20c8464	90,00	11020409	1024/11	į	T		AW673469.1 E
	Most Similar (Top) Hit BLAST E	0.0E+00	0.0E+00		0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0 OE+00	0.0E+00	0.0E+00	0.0E+00/	0.0E+00	00+400	00+100	00110	0.0E+00/ 328324	0 OF+00	0.0E+00	0.0E+00	0.0E+00 A
	Expression Signal		1.85		2.39	1.77	1.77	1.77	1.27	1.27	1.53	8.73	1.89	1.89	2.78	1.61	3.98	2.67	12.22	4.23	4.23	2.69	2.69	19	1.52	1.5	3.84	3.84	1.96	1.96
	ORF SEQ ID NO:		36920				1				36973	36974	36977	36978	36992	37028	37031	37032	37036	37040	37041	37043	37044	37055	37069	33133	37074	37075	37,101	37102
	Exon SEQ ID NO:	23663			\perp		1	-	25133	25133	23705	23706	23708	23708	23721	23753	23755	23756	23761	23766	23766	23768	23768	23780	23793	20052	23799	23799	23821	23821
	Probe SEQ ID NO:	10989	10989	10002	10332	11016	11010	01011	11028	11028	11034	11035	11037	138	11051	11083	11085	11086	11091	11098	11096	11098	11098	11110	11124	11127	11131	11131	11154	11154

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Single Exon Probes Expressed in Brain	Most Similar (Top Hit Acession Database Top Hit Descriptor Source Value	0.0E+00 BF507876.1 FST HIMAN	0.0E+00 BF507878.1 EST HIMAN	0.0E+00 AU135170.1 EST HIMAN	0.0E+00 BF576138.1 FST HIMAN	0.0E+00 BF576138.1 FST HIMANI	0.0E+00 BF086811 - EST HIMAN	0.0E+00 BE876401.1	0.0E+00 BE876401.1 EST HUMAN	0.0E+00 D87682.1	0.0E+00 BF240536,1 EST HUMAN		0.0E+00 AB037737.1 NT	0.0E+00 11430868 NT	0.0E+00	0.0E+00 AA772837.1 EST HUMAN	0.0E+00 AF223391.1 NT	* PUCCOCCE V COTEO C	0.0E+00 A503544 NIT	0.0E+00 BF576267.1 FST HIMAN	0.0E+00 AW328173.1	0.0E+00 M55083.1 NT	0.0E+00 BF306996.1 EST HUMAN	0.0E+00 BF306996.1 EST HUMAN	0.0E+00 BF362462.1 EST HUMAN	0.0E+00 U36264.1 NT	0.0E+00 U36264.1 NT	0.0E+00 BE897051.1 EST HUMAN	0.0E+00 4503786 NT	0.0E+00 8923698 NT	0 00-100 00-00-00
gle Exon Pro		FST HIMAN	FST HIMAN	EST HIMAN	FST HIMAN	EST HIMAN	EST HIMAN	EST HUMAN	EST HUMAN	L LN	EST HUMAN	L	L _Z	Į.	LZ	T HUMAN				T HI IMAN	Т	Т	Т	Т	Т			HUMAN			EST LITAAN
รั		BF507876.1	BF507876.1	AU135170.1	BF576138 1	BF576138 1	BF086811.1	BE876401.1	BE876401.1	D87682.1	-					4A7728	AF223391.1		13544	BF576267.1									4503786	8923698	DESCRIPTION 4
		0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0 05400	00E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	00+300
	Expression Signal	6.21	6.21	1.57	1.82	1.82	1.67	5.5	5.5	<u>4</u>	5.95	2.04	2.04	4.17	4.17	1.8	1.62	28.7	6.16	1.36	5.84	71.88	2.93	2.93	105.67	2.34	2.34	3.03	1.73	3.55	2 69
	ORF SEQ ID NO:		37129	37136	37140	37141	37142	37143	37144	37150	_	37166	37167	37170	37171	37179	37192	37193	37198	37205	37209		37216	37217	37225	37249	37250			37271	_
	Exon SEQ ID NO:	L	23843		23854	23854	23855	23857	23857	23864	23868	23881	23881	23885	23885	23893	23903	23903	23906	23913	23916	23820	23926	23926	23932	23952	23952	23956	23957	23969	23972
	Probe SEQ ID NO:	11176	11176	11185	11189	11189	11190	11192	11192	11199	11204	11218	11218	1222	11222	1230	11241	11241	11244	11251	11254	11258	11264	11264	11271	11291	133	11295	1128	01310	11313

Page 532 of 536 Table 4

Single Exon Probes Expressed in Brain	Top Hit Descriptor	ba0407.y1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE.2823373 5' similar to TR:076022 076022 E1B-55KDA-ASSOCIATED PROTEIN	ba04d07.y1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:2823373 5' similar to TR:076022 076022 E1B.	000-CT0225-401299-074-878 CT0225-U	nl42008.st NCI_CGAP_Pr4 Homo sapiens CDNA done IMAGE:1043342 similar to gb:M95178 ALPHA-	WENDEAUS STATE OF THE INCIDENCE OF THE I	ANOSHOR STANDARY AND SEPTEMBERS CON Clone IMAGE: 2464094 3	UNEX. NIT MICE STORE SERVER CONA CIONE IMAGE: 2846919 5	Homo saniens, neurovica III (Alboya) - 1234	SOUTH STORY OF THE	COTTINENT MICH. 16 HOMO Saplens cDNA clone IMAGE:3354600 5'	20165000001 INIT WILL WOOD Septens CONA clone IMAGE:3895916 3'	OS 10090000 I NIT _MCC_ / 0 Homo sapiens cDNA clone IMAGE:3895916 3'	III II BWA COLOUCO TO THE BWA CO	DIX F27-43-17-8-13-4	DIX EXPANDITION 11 434 (Syndrym: ntest) Homo saplens cDNA clone DKFZp434G178 5	wn83g03.x1 NCI_CGAP_Ut1 Homo sapiens cDNA clone DKFZp434G178 5	RECEPTOR (HUMAN);	OJ3686 ALKB HOMOLOG PROTEIN -	nz11c07.s1 NCI_CGAP_GCB1 Homo sapiens cDNA clone IMAGE:1287468 3' similar to TR:Q13686	601501090F1 NIH MGC 70 Home Continued to the Continued to	727112x1 NCI_CGAP_CLL1 Homo sapiens cDNA clone IMAGE:3295919 3' similar to TR:000409 000409	CHECKPOIN SUPPRESSOR 1.;	COLES SOSOFT MIT MICE, 39 Home sapiens aDNA clone IMAGE:3611144 5	AV757470 BM Home continue PNA PARTER CON BM GE:3611144 5	an endocembris retraining the W/Unity IX	Homo saniens notherwite kidnes diseases	Homo sapiens polycystic kidney disease-associated model, PKD1) gene, complete cds	AU138211 PLACE1 Homo saplens cDNA clone PLACE1008077 5'
gle Exon Probes	Top Hit Database Source	EST_HUMAN 55	Dad ba	1		Т	Т	Т		HI INAANI .		Т	T	T	1	EST HIMANI DK		EST HUMAN RE	EST_HUMAN Q13	PST HIMAN 043	T	Т	EST HUMAN COR	Т	Т	Т			EST_HUMAN AU1
Sin	Top Hit Acession No.	0.0E+00 BE206846.1	0.0E+00 BE206846.1			T	Γ	T	8827	BE254058 1	Γ		T	Ī				AI923116.1	AA760913.1	AA760913 1	T	DE 676347 4	T	T	T		L39891.1	L39891.1	AU138211.1 E
	Most Similar (Top) Hit BLASTE Value	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00		0.0E+001			_	0.0E+00 A	0.0E+00	0.0E+00	0.05	0.0E+00-B	0.0E+00 B	0.0E+00.A	0.0E+00 Y			0.0E+00/A
	Expression Signal	4.02	4.02	3.88	3.06	3.84	7.45	1.89	2.2	1.73	1.74	1.74	4.52	1.29	7.81	7.81	oa u	80.5	3.42	3.42	1.94	6.2	1.78	1.79	1.61	1.52	10.31	10.31	4,69
	ORF SEQ ID NO:	37321	37322	37324		30623	37330	37348	36401	37276	37278	37279	37280		37294	37226	37306		37353	37354	37360	36413	36416	36417	36424	37367	37370	37371	37387
	Exan SEQ ID NO:	24018		24020				l	23173	23975	23978	23978	23979	23980	23993	23993	24003		24050	24050	24055	23183	23186	23186	23193	24061	24064	24064	24077
	Probe SEQ (D NO:	11327	11327	11329	11334	11335	11336	11355	11362	11368	11371	11371	11372	11373	11387	11387	11397		11401	11401	11406	11416	11419	11419	11428	11457	11461	11461	114/6

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Single Exon Probes Expressed in Brain	Exon ORF SEQ Expression (Top) Hit Accession NO. Signal BLASTE No. Signal Value	24092 37404 1.92 0.0E+00 BE6223471 FET HIMAN GRADADGETANIU NEC 2011	24118 37428 1.42 0.0E+00/Algases4 1 EST LIMAN	24129 37434 13.79 0.0E+00 BE748899.1 FST HIMAN	24129 37435 13.79 0.0E+00/BE748899 1 EST UIMAN	24139 37447 1.81 0.0E+00 AU141882.1 EST HIMAN	24139 37448 1.81 0.0E+00 AU141882.1	EST HUMAN	37455 3.49 0.0E+00 BF002333.1 FST HI IMAN	2.88 0.0E+00 AW387776.1 EST HIMAN	37486 2.88 0.0E+00 AW387776.1 EST HIMAN	2.41 0.0E+00 AW863777.1 EST HUMAN	37521 4.76 0.0E+00 11435244 NT	37522 4.76 0.0E+00 11435244 NT	37529 5.87 0.0E+00 U36253.1 NT	37533 2.29 0.0E+00 BE379254.1 EST_HUMAN	37534 2.29	37553 2.22 0.0E+00 BE794758.1 EST HUMAN	37554 45.09 0.0E+00 BE879633.1 EST HUMAN	37560 1.62 0.0E+00 475827 NT	37561 1.62 0.0E+00 4758827 NT	37565 1.65 0.0E+00 AF053543.1 NT	1.56 0.0E+00 AL163204.2 NT	37572 14.06 0.0E+00 BE409993.1 EST_HUMAN	24251 37573 1.46 0.0E+00 BE148650.1 EST_HUMAN MR0-HT0241-150500-011-702.HT0241 Home septens cDNa	24252 37574 2.69 0.0E+00 AF223391.1 NT spliced splens calcium channel alpha1E subunit (CACNA1E) gene, exons 7-49, and partial cds, alternatively	24252 37575 2.69 0.0E+001.4E2223304 1 Nutr	30878 1.29 0.0E+00 D26535.1 INT	30879 1.29 0.0E+00 D26535.1 NT	37576 5.6 0.0E+00 BF681641.1	EST_HUMAN
-														İ				1													
-	Probe E SEQ ID SE NO:	11491	L			L	11539 2	11542 2		_				i				┙	_1	11640 24		_		┙	11054	11655 24	11655 24			_1	11658 24

Page 534 of 536 Table 4

	Top Hit Descriptor		tate 2A (GRIN2A) mRNA			935 5'																		r to SW:CG2G_HUMAN				739231 3				rial protein, mRNA	insferase theta 1 (GSTT1)	434K0819 5
Single Exon Probes Expressed in Brain	Top Hit	The second secon	nomo sapiens glutamate receptor, ionotropic, N-methyl D-aspartate 2A (GRIN2A) mRNA	Homo saplens gephyrin mRNA, complete cds	AU132940 N 12RP4 Homo sapiens cDNA clone NT2RP4000929 5	OUTD/TOSS/F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3958935 5'	Himan lambda-immunoglobulin constant region complex (germline)	numan lampda-immunoglobulin constant region complex (germline)	801177007E4 NIN WOO 17 Homo sapiens cDNA clone IMAGE:4131416 5	60117740/FI NIH MGC_17 Homo saplens cDNA clone IMAGE:3532968 5	SO1576525 MILL MOS. 3 Homo sapiens cDNA clone IMAGE:3837222 5	501313030E1 NIT MICC 9 Homo sapiens cDNA clone IMAGE:3837222 5	60111300651 NIN MCC 18 HOME Saplens cDNA clone IMAGE:3353378 5	601114240E1 NIT MCC 16 HOMO Sepiens CDNA clone IMAGE:3353378 5	011112431 1 NIT NIC 10 Homo saplens cDNA clone IMAGE:3354872 5	PM1-BT0348 151295-001-C11 B10348 Homo saplens cDNA	MR0-H70166-271100-005-001-011 B 10348 Homo sapiens cDNA	MR0HT0166-271199-005-903 HT0160 Homo sapiens cDNA	10117974 HEMBA1 Home confirm Park	AU117974 HFMBA1 Home control Chila - I EmbA1002612 5	Human beta-bring-adaptin /BAM23/ 2017	Human beta2-chimserin mRNA	H.sapiens GLAST1 gene for dilial du temate transmett.	#38f02x1 NCI_CGAP_GC6 Home spaces oDNA clone IMAGE:2243067 3' similar to SW:CG2G_HUMAN_P54950 C3AAIITOTIC SPECIFICATION	1133304 NT3BB3 Line CTCLIN GT	60115003251 NILL MCC 1011	del 1500255F I NIT MCC_19 Homo sapiens cDNA clone IMAGE:3503020 5'	Home scales, detail Jung_NoHL19W Home sapiens cDNA clone IMAGE:1739231 3	Home conjugacy	Home schiefts curdingsome 21 segment HS21C046	norm saprens calcineurin binding protein 1 (KIAA0330), mRNA	Homo sapiens antioxidant protein 1 (AOP1), nuclear gene encoding mitochondrial protein, mRNA Homo sapiens dilitathions Change and the AOCTON	genes, complete cds	DKFZp434K0819_r1 434 (synonym: htes3) Homo sapiens cDNA clone DKFZp434K0819 5
gle Exon Prok	Top Hit Database Source	LV		14 CA 41 CA 1	Т	T		T HI IMAN	Т	Т	Т	Т	Т	Т	Т	Т	T	T	Т	Т	Т			EST HIMAN P	Τ	Τ	T	Т						EST_HUMAN D
Sis	Top Hit Acession No.	TIN COORDOR	AF27266	+00 At 1132940 1	0.0E+00 BE903372 4	+00 X51755 1		-	T	0.0E+00 BE744311.1		0.0E+00 BE257612.1	Γ	T	T	0.0E+00 AW749184.1	T		0.0E+00 AU117974.1		+00 U36264.1	+00 U07223.1	+00 Z31706.1		+00 AU132394.1	T				7862	5802073 NIT	N CLESTON		
10 to 10	Most Similar (Top) Hit BLAST E Value	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+50	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00 /	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00 E	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0F+00		0.0E+00 AF240786.1	0.0E+00/A
	Expression Signal	1.93	1.5	1.71	1.35	2.5	2.5	15.74	11.96	1.3	1.3	1.43	1.43	1.69	1.68	1.68	2.23	2.23	2.46	2.46	1.31	2.45	5.54	2.26	2.31	2.27	3.89	1.6	4.9	4.1	3.05		259	5.39
	ORF SEQ ID NO:		30593		37588	37604	37605		37654	37671	37672	37678	37679	37705	37710	37711	37713	37714	37720	37721		31859	37741	37760	37762	30600				_	-	-	30816	
	Exen SEQ ID NO:				1	24282	24282	25136	24330	24342	24342	24348	24348	24375	24380	24380	24382	24382	24387	24387	14948	18891	24407	24419	24421	25399	25257	24468	24482	24488	24501		25218	107707
	Probe SEQ ID NO:	11662	11664	11667	11670	11687	11687	11728	11737	11751	11751	11757	11757	11785	11790	11790	11792	11792	11797	11797	11808	11821	11822	11835	11837	11879	11893	11902	11921	11929	11947		11982	200

Page 535 of 536 Table 4 Single Exon Probes Expressed in Brain

		_	_	_		_																										
Top Hit Descriptor	1. Of a Complete and	norm Septems G-2 and S-phase expressed 1 (GTSE1), mRNA	UNT-ZP434G218_r1 434 (synonym: htes3) Homo sapiens cDNA clone DKFZp434G218 5	IL-BT030-271098-001 BT030 Homo sapiens cDNA	9/4/0e/08.s1 Soares fetal liver spleen 1/NFLS Homo sapiens cDNA clone IMAGE:245222 3' similar to	SWITCH BAEVM F102/2 POL POLYPROTEIN ;	Homo sapiens adenylosuccinate lyase gene, complete cds	runn sapiens I -cell lymphoma invasion and metastasis 1 (TIAM1) mRNA	riomo sapiens 1-cell lymphoma invasion and metastasis 1 (TIAM1) mRNA	Homo sapiens nuclear factor of activated T-cells extends emic calculated and activated to the same and the same and the same and the same are same and the same are same and the same are same and the same are same are same and the same ar	Homo saplens X-linked anhidrottic ectodermal dysplasia protein gene (EDA), exon 2 and flanking repeat regions	hg31e06.x1 NCI_CGAP_GC6 Homo sapiens cDNA clone IMAGE:2947234 3' similar to contains Alu	repending element on tains element MER22 repetitive element;	RCG-B 10711-290300-011-D05 BT0711 Home saplens cDNA	nomo sapiens somatostatin receptor subtype 3 (SSTR3) gene, 5' flanking region and partial cds	Fruman endogenous retrovirus, complete genome	anuonuo4.x1 Strategene schizo brain S11 Homo sapiens cDNA clone IMAGE:1684759 3	-dv-B1uco-020399-103 B1065 Homo sapiens cDNA	rromo sapiens calcineurin binding protein 1 (KIAA0330), mRNA	Homo sapiens carcheurin binding protein 1 (KIAA0330), mRNA	yo59e08.rt Soares breast 3NbHBst Homo sapiens cDNA clone IMAGE:182248 5' similar to ah-Madooo	GAMMA-GLUTAMYLTRANSPEPTIDASE 5 PRECURSOR (HUMAN);	yoceeds.rt Soares breast 3NbHBst Home sapiens cDNA clone IMAGE:182246 5' similar to gb:M64099 GAMMA-GLUTAMY TRANSPEDTIDAGE & PDE A INCORD WILLIAMS	Human gamma-cytoplasmic arth (ACTOBA) 2011	mo sadians throid autoantana 2010 (i.e. 1975)	Homo saniens through automatican 70kD (Ku antigen) (522P1), mRNA	Homo septeme figure autocatografic (Manager) (GZZP-1), mRNA	Manager School All Topo of I.	Homo sarlane hundheld and the Control of the Contro	Homo sapilars hypometical protein FLJ10697 (FLJ10697), mRNA	Homo saplens G protein-counled recenhr 24 (GBD24), mRNA	(AZ) (10) (-2) (-10)
Top Hit Database Source			7	EST_HUMAN		NUMBER 1					Ļ.	- NAME OF	Т	Т		14444	ES L HOMAN	NEWOL -				ES HUMAN	EST HUMAN G	T				T HI IMAN	7.000			
Top Hit Acession No.	11418348INT	0 0F+00 At 048544 4	0.0E+00 A1003407 4	A1900497.1	00 N54484.1		0.0E+00	4507500 NIT	100 1001	10092587 NT	00 AF003528.1	0.0E+00 AW590082 1	T	T	35/87	10000		242457	R042457 NIT	0.0E+00 AF036365.1					11418189 NT	11418189 NT	4758489 NT	AW664999 1	2593	11526291 NT	4885312 NT	
Most Similar (Top) Hit BLAST E Value	0.0E+00	0.05	001100	COLTON	0.0E+00	00110	0 0F+00	00+100		0.0E+00	0.05+00	0.0E+00/	00F+00	00+100	0 0F+00	0.0F+00 A120404.4	0 0E+00	0.0E+00	0.0E+00	0.0E+00 A	0 06±000 H30432 4	3	0.0E+00 H30132.1	0.0E+00 D50659.1	0.0E+00	0.0E+00	0.0E+00	0.0E+00		0.0E+00	0.0E+00	
Expression Signal	3.12	3.94	1,68	3	1.52	5.88	3.39	3.39		2.21	2.04	2.63	1.34	4.43	3,36	2.41	1.68	1.51	1.51	2.08	97.6	i	2.76	10.66	2.51	2.51	1.53	1.5	2.09	1.88	4.24	
ORF SEQ ID NO:				<u> </u>		- -	26262	26263				30814	-		-		-	27436	27437	31039	27119		27120	1	31020	31021	27549		26617		28718	
Exon SEQ ID NO:	L	24551	l	ı		24594	13593	13593	100.0	#07C7	13318	25198	25248	25258	24732	25252	24778	14718	14718	24799	14424	-	14424	24816	24818	24818	14817	24856	13953	24884	16069	
Probe SEQ ID NO:	12015	12023	12037		12076	12089	12092	12092	13400	3	12129	12218	12229	12273	12308	12351	12383	12405	12405	12423	12435		12435	12446	12448	12448	12464	12502	12538	12544	12568	
													_							_		_						_4	_			

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	<u> </u>	_	Т	_		-	_	_	7=		_
origie Exon Probes Expressed in Brain	Top Hit Descriptor	Harn conjone law demails it	Homo sapiens CST dene for carehoreide sufficiency.	Home capiene cleanage and actual and selection of the control of t	Home saplens characters of account to the specific factor 1, 160kD subunit (CPSF1), mRNA	Home continue of full for the first total for	Light Sapreis low density ilpoprotein-related protein 2 (LRP2), mRNA	Homo saplens Carcheurin binding protein 1 (KIAA0330), mRNA Homo saplens DK F7n434D311 statein (TXF75124341044)	wu9307 X1 NC] CGAP_KIGH Hamo saplens CDNA clone IMAGE:2527596 3' similar to TR:Q12844 Q12844	Home confine of the second PROTEIN ; contains TAR1.t3 TAR1 repetitive element;	Homo saplens clinding and its open reading frame 3 (C120RF3), mRNA
JI EXON PRO	Top Hit Database Source	FN	L	Į	μ			L		NICIAIDI.	Ę
ב ה	Top Hit Acession No.	ERN6918 NT	30 AB029900.1	9558724 NT	0 AL 163246.2	8018	TA447882	7657020 NT	0 0F+00 AW025032 1	124	0.0E+00 AF083824.1
	Most Similar (Top) Hit BLAST E Value	0.0E+00		0.0E+00			005+00	0.0E+00	0.07	0.0F+00	0.0E+00
	Expression Signal	3.05	2.12	2.06	2.66	2.77	1.5	4	1.76	1.37	1.39
	ORF SEQ ID NO:	30592		31009		26021	30972		30967	26550	
	Exon SEQ ID NO:	17905	24905	24927	25410	13390	24999	25004	25042	13890	25251
	Probe SEQ ID NO:	12576	12682	12622	12648	12654	12729	12735	12790	12808	12818

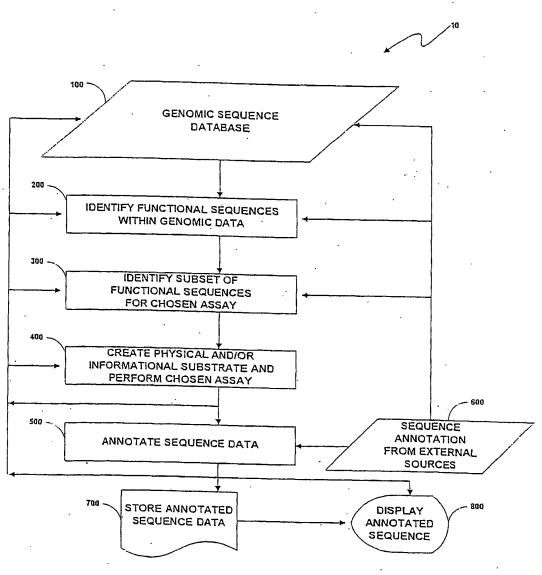


Fig. 1

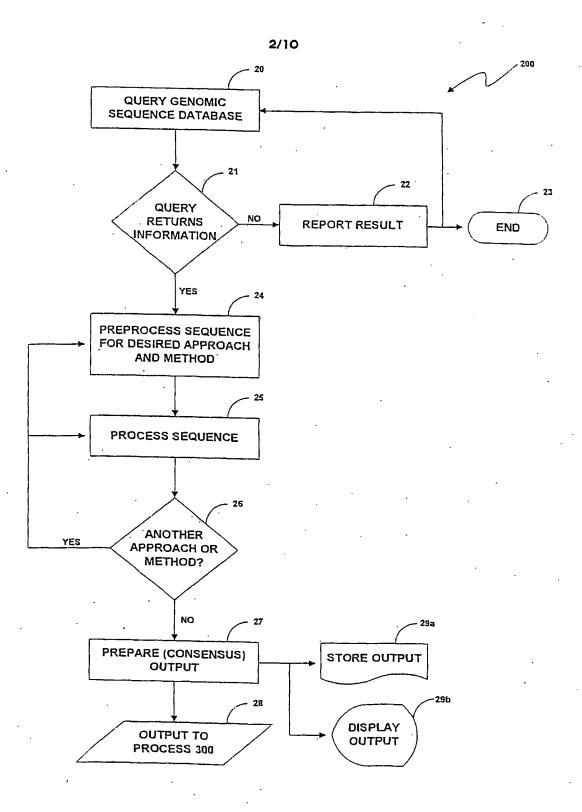


Fig. 2

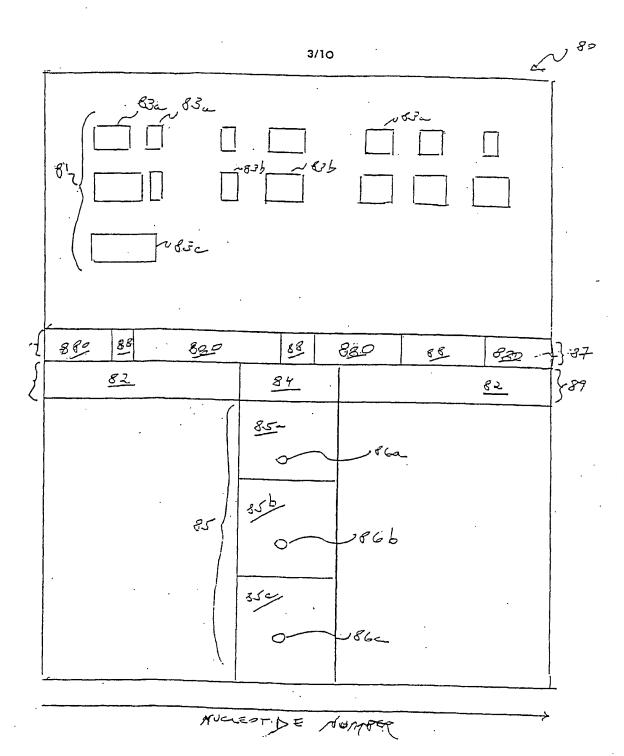


Fig. 3

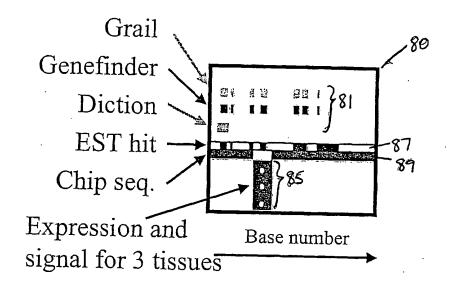


Fig. 4

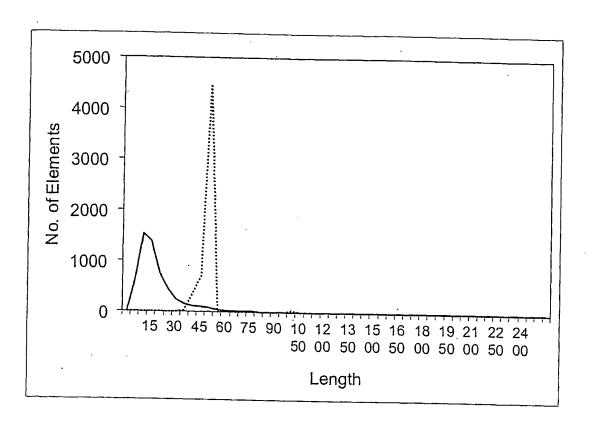


Fig. 5

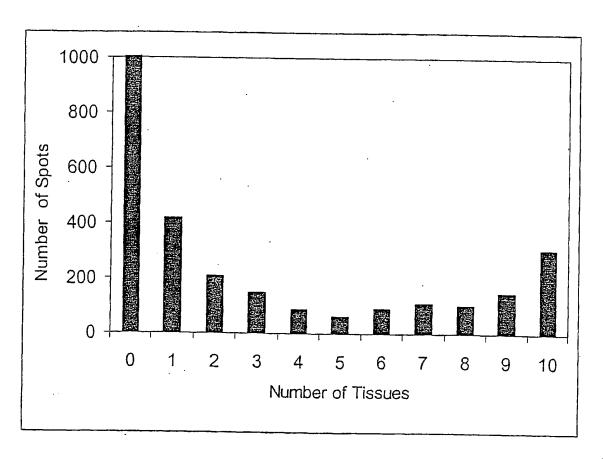


Fig. 6

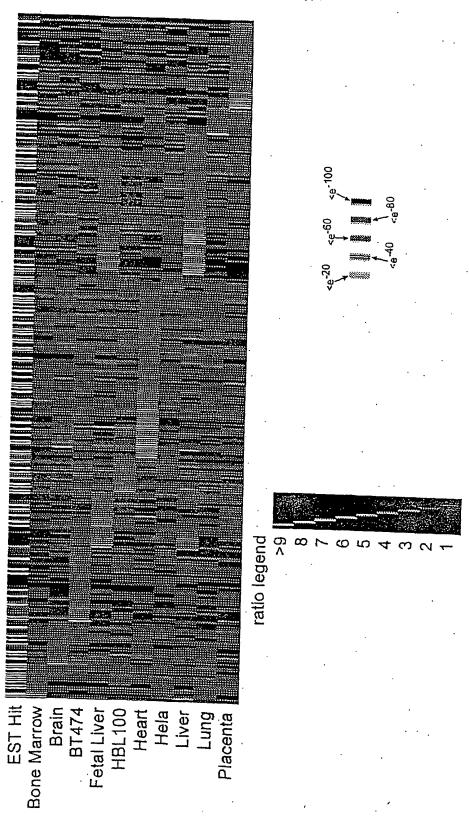


Fig. 7

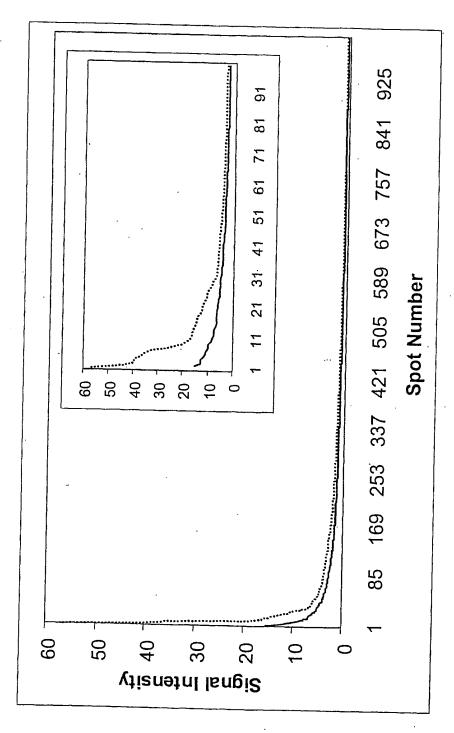
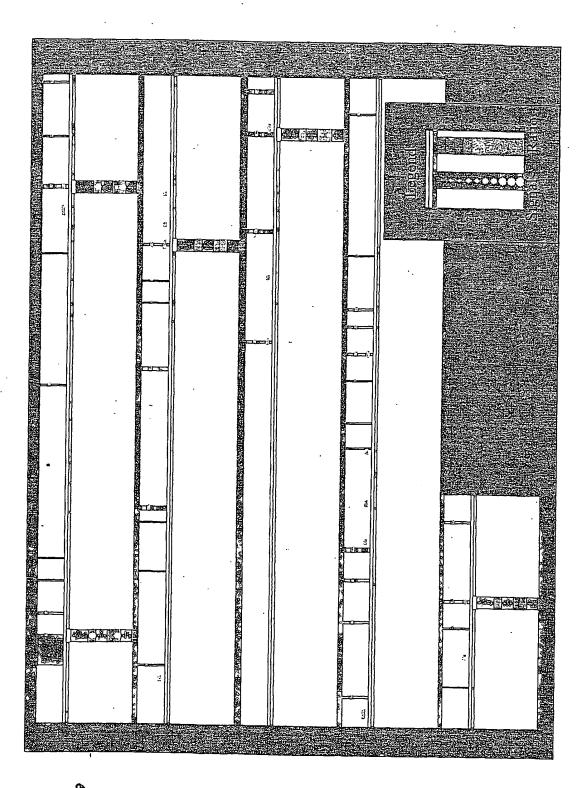


Fig. 8



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Fig. 10

